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BARBADOS

ANNUAL REPORT

OF THE

DIRECTOR OF MEDICAL SERVICES

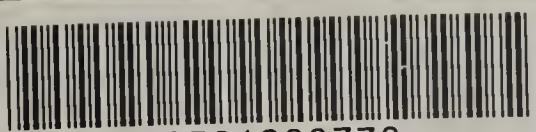
FOR THE YEAR

1960 - 61

GOVERNMENT PRINTING OFFICE, BAY STREET, BARBADOS.

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ERRATA

On Page 18, the section commencing with **Table E** and ending with "re-admission" of **Table F** should be read in conjunction with the section headed **Out-Patients** on Page 23.

On Page 51. **Part X, GENERAL SANITATION**, "recognised" should be replaced by reorganised.

BARBADOS

ANNUAL REPORT

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DIRECTOR OF MEDICAL SERVICES

FOR THE YEAR

1960 - 61

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ANNUAL REPORT OF THE DIRECTOR OF MEDICAL SERVICES FOR THE YEAR
1960-61

Part I. MEMBERSHIP OF COMMITTEES

GENERAL BOARD OF HEALTH

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Alderman Hon. F. McD. Symmonds, M.L.C.

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of Health

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Inspector

P. H. M. Stevens, Esq., Town and Country Planning
Officer

D. T. Daniel, Esq., — *Clerk.*

} Advisers attending
by invitation

GENERAL HOSPITAL ADVISORY COMMITTEE

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H. Waite, Esq.

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V. C. Boyce, Esq., — *Secretary*

VISITING COMMITTEE OF THE LAZARETTO

Dr. M. A. Byer, O.B.E., Director of Medical Services — *Chairman*

Dr. F. N. Grannum, M.B.E., Senior Medical Officer of Health (Acting)

The Rev. K. S. Hassell (*Chaplain*)

C. B. Allamby, Esq.

Miss Eunice Gibson

Mrs. F. A. Bishop, M.B.E.

Mrs. W. Terajewicz

Mrs. W. A. Redhead

Sister May Teresa, C.J.G.S.

C. E. Edwards, Esq., Superintendent — *Secretary.*

GENERAL NURSING COUNCIL

Dr. M. A. Byer, O.B.E., Director of Medical Services – *Chairman*
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 Dr. F. N. Grannum, M.B.E., Senior Medical Officer of Health (Acting)
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 Colin Vaughan, M.R.C.S. (Eng.), L.R.C.P. (Lond.)
 Miss I. Stuart, Principal Sister Tutor, General Hospital
 Mrs. E. Chandler
 Mrs. M. I. Stuart – *Secretary*

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 The Hon. Dr. H. G. Massiah, M.L.C.
 C. B. Vaughan, M.R.C.S. (Eng.) L.R.C.P. (Lond.)

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 Dr. L. K. Nicholls
 Dr. E. W. Storey,

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 E. St.A. Holder, M.C.P.
 Councillor K. Forde
 Councillor V. W. A. Chase
 Miss A. Walters
 Dr. M. A. Byer, O.B.E., Director of Medical Services (*ex officio*)

Part II. STAFF

2. Whole-time members as at 31st March, 1961.

Director of Medical Services

M. A. Byer, O.B.E., M.B., Ch.B.(Edin.), D.P.H. (Harvard)

Senior Medical Officer of Health

E. Cochrane, M.B., Ch.B.(U. Glasgow), D.P.H.(Lond.)

Health Officer (Port)

F. N. Grannum, M.B.E., M.B., Ch.B. (Edin.), D.T.M. & H. (Eng.) M.P.H. (Harvard)

Supervisor, Public Health Nurses

Miss A. Walters

Chief Public Health Inspector

W. A. Abrahams, Esq., M.R.S.H.

Assistant to Chief Public Health Inspector

S. J. Sealy, Esq., A.R.S.H.

Office Superintendent

T. F. King, Esq., B.A. (Durham)

Clerical – 9
 Technical – 10
 Nursing – 1
 Other – 3

BARBADOS GENERAL HOSPITAL**Medical Superintendent**

A. D. Sinclair, M.B., Ch.B., D.A., F.F.A.R.C.S.

Surgeon Specialist

A. G. Leacock, M.B., B.Chir., M. Chir. (U. Camb.) F.R.C.S.(Eng.)

Specialist Physician

H. McD. Forde, M.R.C.S. (Eng.) L.R.C.P. (Lond.), M.B., B.S. (Lond.) M.D. (Lond.), D.P.H. (Eng.), M.R.C.P. (Edin.), D.T.M. & H. (Eng.)

Specialist Radiologist

Edith Smith, M.B., B.S., (U. Punjab), D.M.R.E. (Camb.)

Anaesthetists

B. S. Skinner, M.R.C.S. (Eng.), L.R.C.P. (Lond.) F.A.C.A.

R. V. Steward, M.B., B.S., D.A., R.C.P. & R.C.S. (Eng.)

Ophthalmic Surgeon

H. N. St. John, F.R.C.S. (Ed.), D.L.O.

Medical Registrar

A. C. Graham, M.R.C.S. (Eng.), L.R.C.P. (Lond.), M.B., B.S. (U. Lond.)

Surgical Registrar

H. V. Morris, L.M.S. (Nfld.), N.Bd., M.D.C.M., L.M.C.C.

Medical Officers Grade "A"

M. M. R. Lewis, M.B., B.S.

D. McD. Barr, M.B., Ch.M.

G. A. O. Alleyne, M.B., B.S., (U. Lond.)

N. E. Procope, M.B., B.S.

P. Johnson, M.B., B.S. (Lond.)

House Officers

A. Bayley, M.B., Ch.B. 1960, (U. Lpool.)

R. Goddard, M.R.C.S. (Eng.) 1960, L.R.C.P. (Lond.) 1960

Steward and Secretary

W. C. Goodman, Esq., M.B.E.

Matron

Miss E. Walters

Assistant Matron

Miss E. M. Skinner

Principal Sister Tutor

Miss I. Stuart

Sister Tutor

Miss O. Barrett

Departmental Sisters

Miss B. St. Hill

Miss A. Mayers

Miss C. Blackman

Miss C. Estwick

Miss E. Husbands

Physiotherapist

Miss D. I. Traynor, M.C.S.P.

Radiographers

Miss N. Forde
Mrs. J. Y. Worrell

Clerical - 18
Nursing - 253
Technical- 16
Other - 270

BACTERIOLOGICAL AND PATHOLOGICAL LABORATORY

Bacteriologist and Pathologist

J. E. Walcott, M.B., Ch.B., (U. Glasgow), D.T.M. & H. (Eng.)
from 1st January - 31st August, 1960
W. dos Santos, M.R.C.S., L.R.C.P., M.B., B.Chir. (Cantab.)
appointed with effect from 17th November, 1960

Assistant Bacteriologist and Pathologist

Mary Bools, M.D., Ch.B., B.A.O. (N.U. Irel.)

Clerical - 1
Technical - 5
Other - 2

BARBADOS GENERAL HOSPITAL (Part-time members as at 31st March, 1961)

Visiting Surgeons

A. L. Stuart, M.B., Ch.B., D.T.M. & H.
H. L. Massiah, M.R.C.S. (Eng.), L.R.C.P. (Lond.)
A. S. Cato, M.B., Ch.B. (U. Edin.)

Assistant Visiting Surgeon

G. S. Emtage, M.R.C.S. (Eng.), L.R.C.P. (Lond.)

Assistant Ophthalmic Surgeon

A. A. Gibbons, M.B., Ch.B. (U. Edin.), D.O.M.S., R.C.P.S. (Eng.)
D.T.M. (L'pool).

Ear, Nose and Throat Surgeon

A. O. W. F. Trieloff, M.D., L.M.C.C.

Assistant Ear, Nose and Throat Surgeon

F. G. Reader, M.R.C.S. (Eng.) L.R.C.P. (Lond.)

Dental Surgeon

E. W. Storey, D.D.S.

MENTAL HOSPITAL

Medical Superintendent

Lt. Col. R. M. Lloyd-Still, M.R.C.S. (Eng.), L.R.C.P. (Lond.)

Assistant Medical Superintendents

W. Terajewicz, M.D. (U. Cracow)
E. St.E. Thompson, M.D., (Toronto), L.M.C.C., D.O. (Eng.) (Part-time)

Matron

Miss G. Bayley

Tutor

D. Nugent, Esq.

Head Male Nurse

A. E. Lewis, Esq.

Steward

V. Boyce, Esq.

Clerical - 4
 Nursing - 103
 Other - 40

LAZARETTO

Superintendent

C. E. Edwards, Esq.

Visiting Physician

T. Blades, M.R.C.S. (Eng.), L.R.C.P. (Lond.)

Other - 17

HEALTH CENTRES

Enmore

Medical Officer of Health

L. Harney, L.M.S.S.A. (Lond.) 1952; M.R.C.S. (Eng.) 1953; L.R.C.P. (Lond.) 1953;

Laboratory Supervisor

V. A. A. Archer, B.Sc. (McGill), M.Sc. (Toronto), F.C.I.C.

Senior Public Health Nurse

Miss B. Payne

Radiographer

Mrs. S. R. St. John

Clerical - 4

Nursing - 6

Technical - 3

Other - 7

St. Philip

Medical Officer of Health

K. L. Standard, M.B., B.S., M.P.H.

Senior Public Health Nurse

Miss M. Barrett

Clerical - 1

Nursing - 5

Technical - 1

Other - 2

Speightstown

Medical Officer of Health

R. A. J. Webb, L.R.C.P., M.R.C.S., M.B., B.S.

Senior Public Health Nurse

Miss M. Mayers

Clerical - 1

Nursing - 4

Technical - 1

Other - 4

MATERNITY HOSPITAL

Matron

Miss L. V. Fearon

Clerical - 1

Nursing - 4

Other - 16

Assistant Health Officer (Port)

D. O. S. Payne, L.R.C.P. (Edin.), L.R.C.S. (Edin.), L.R.F.P.S. (Glas.)
Resigned on 18th May.

E. St.E. Thompson, M.D. (Toronto), L.M.C.C., D.O. (Eng.)

From 19th May – 30th September

Mr. W. A. Abrahams, Government Chief Public Health Inspector
1st October, 1960 to 16th January, 1961

School Dentists (Part-time)

Dr. F. M. O. Alleyne

J. A. Smith, D.D.S.

T. E. H. Talma, D.D.S.

Part III. LEGAL

There was no change during the year.

Part IV. VITAL STATISTICS

The natural increase in population, *i.e.* the difference between births and deaths, was 5,703. This is the highest figure recorded during the last ten years.

This natural increase was partly offset by the excess of emigrants 54,250 over immigrants 50,019, a difference of 4,221.

The birth rate rose slightly from 29.77 per 1,000 last year to 32.44 for 1960.

The death rate also shows a slight rise from 8.73 last year to 8.82 for the year 1960.

The Infant Mortality Rate of 60 per 1,000 live births is a clear indication of the greatly improved environmental conditions under which the children live today, as compared with 125 per 1,000 live births in 1950.

A slight improvement is shown in the Maternal Mortality Rate of 2.17. The rate for last year was 2.25 per 1,000 live births.

The main vital statistical data for the year ending 31st December, 1960 are as follows:-

Estimated end of year population	..	..	242,271
Estimated mean population	..	..	241,535
Births registered	..	..	7,833
Birth rate per 1,000 of the population	..	..	32.44
Deaths registered	..	..	2,127
Deaths per 1,000 of the population	..	..	8.82
Infant Mortality Rate	..	..	60
Maternal Mortality Rate per 1,000 live births	..	..	2.17
Still birth rate per 100 live births	..	..	2.08

The following table gives a comparison of the rates with those recorded in neighbouring territories:

Rate	Barbados	Trinidad	Jamaica	British Guiana
Births per 1,000 population	32.44	38.9	42.92	40.4
Deaths per 1,000 population	8.82	7.8	8.90	8.7
Infant Mortality per 1,000 live births	60	45.3	50.97	58.5

Vital statistical data over the ten year period 1951-60:

Year	Natural Increase Population	Birth Rates	Crude Death Rates	Infant Mortality Rate	Maternal Mortality Rate
1951 ..	3,793	31.83	14.06	136	5.01
1952 ..	4,105	33.59	14.68	146	3.08
1953 ..	4,307	33.05	13.36	139	3.49
1954 ..	5,032	33.63	11.29	109	2.71
1955 ..	4,706	33.14	12.60	134	2.59
1956 ..	4,652	30.88	10.59	97	3.39
1957 ..	4,845	31.69	10.69	87	2.19
1958 ..	4,817	30.34	9.80	82	2.95
1959 ..	5,026	29.77	8.73	71	2.25
1960 ..	5,703	32.44	8.82	60	2.17

The population on the 31st December, 1960, was computed as follows:-

Estimated population 31st December, 1959 ..	240,799
Excess of births over deaths	5,703
	246,502
Less excess of Emigration over Immigration ..	4,231
Population at 31st December, 1960 ..	242,271

	Males	Females	Persons
Immigration	28,448	21,571	50,019
Emigration	31,671	22,579	54,250
Arrivals by air	—	—	43,054
Departures by air	—	—	45,856

Tables showing the causes of Death in each parish in age-groups are printed in the Appendices.

Part V. HEALTH AUTHORITIES

The three Local Government Councils have assumed full responsibility for the function of the Commissioners of Health formerly carried out by the eleven parishes.

These Councils have devoted much attention to the preparation of Bye-Laws to be made under the Public Health Act, 1954.

Part VI. REPORT OF THE GOVERNMENT CHIEF PUBLIC HEALTH INSPECTOR

W. A. Abrahams, Esq.

The work done by the Inspectors' Department which included the Inspection Field Force, the Aedes Aegypti Eradication Units, the maritime and Airport Staffs, the other subordinate staffs, during the period April 1, 1960 to March 31, 1961, is hereunder submitted:

The work of the various sections of the Department can be classified under the usual headings, *viz*:

- (1) Aedes Aegypti Mosquito Eradication Programme
- (2) Quarantine and Port Sanitation
- (3) Miscellaneous.

The Aedes Aegypti Mosquito Eradication Programme continues to take precedence over all other phases of work.

In spite of the transfer of some personnel from the Northern District Area to the City of Bridgetown Area where the incidence of mosquito breeding was still high, it was again found necessary to augment the team in the latter Area, where the main focus in the persistent breeding was centred.

Following a period of negotiations between the Government Aedes Unit, and the Public Health Authorities in the City Area, a merger between the two departments was arranged, – this took effect from November, 1960 – the object being, the closer co-operation of the forces fighting against the common enemy (the aedes aegypti mosquito) and also against those problems which had been militating against its early eradication.

As a result of the merger, one of the current problems – ‘closed houses’ – began to assume a different feature and there appeared a ray of hope in some quarters and in others even ‘great expectations’. It was apparent however that even after the end of the first quarter in the new year, progress in this direction was slow and disappointing, despite the combined efforts of the two teams.

The urgent need for better environmental sanitation around premises, was a factor which claimed much more attention than had been given it in the past.

Stocks of D.D.T. which are supplied by W.H.O., had again run dangerously low and this served to increase our task. Despite the assistance afforded us by obtaining supplies from the neighbouring island of Trinidad, all supplies of this insecticide eventually came to an end, at the time when it was most needed.

This shortage was responsible to a great extent for the setbacks experienced in the late quarters of the year.

The incidence of the aedes mosquito breeding became general but more so in the City of Bridgetown Area, where it rose considerably, at one time showing an average of 1.4 per cent.

The regular use of technical D.D.T. and dieldrin for residual spraying of deposits such as disused tyres, metal dumps and other deposits did much to control the spread.

In the Northern Area of the Island conditions remain quite favourable.

QUARANTINE AND PORT SANITATION

In the Port of Bridgetown four hundred and fifty-eight (458) vessels which included, schooners, motor vessels, yachts and other smallcraft arrived in Carlisle Bay, and were berthed in the Careenage.

Four hundred and thirty (430) of these vessels were treated with a ‘knock-down’ spray on arrival in Carlisle Bay before they finally berthed in the Careenage.

Routine inspections were carried out on these vessels, special attention being paid to the question of possible mosquito breeding in water containers. Twenty-four (24) water containers on eight (8) of these vessels were also treated with dispersible D.D.T. prior to their departure from the island to other ports listed on their itinerary.

Residual spraying operations were carried out on 48 vessels during their period of stay in the Careenage, and fumigation was done aboard 7. As mentioned in a previous report the majority of the inter-colonial vessels which ply for hire in these parts have

been fitted with marine engines and the captains of these craft complain of the adverse effect of the use of SO_2 in fumigation operations on these vessels. Poisoned baits were therefore used instead as a quarantine measure against rodent infestation aboard schooners and other craft wherever fumigation was not practicable.

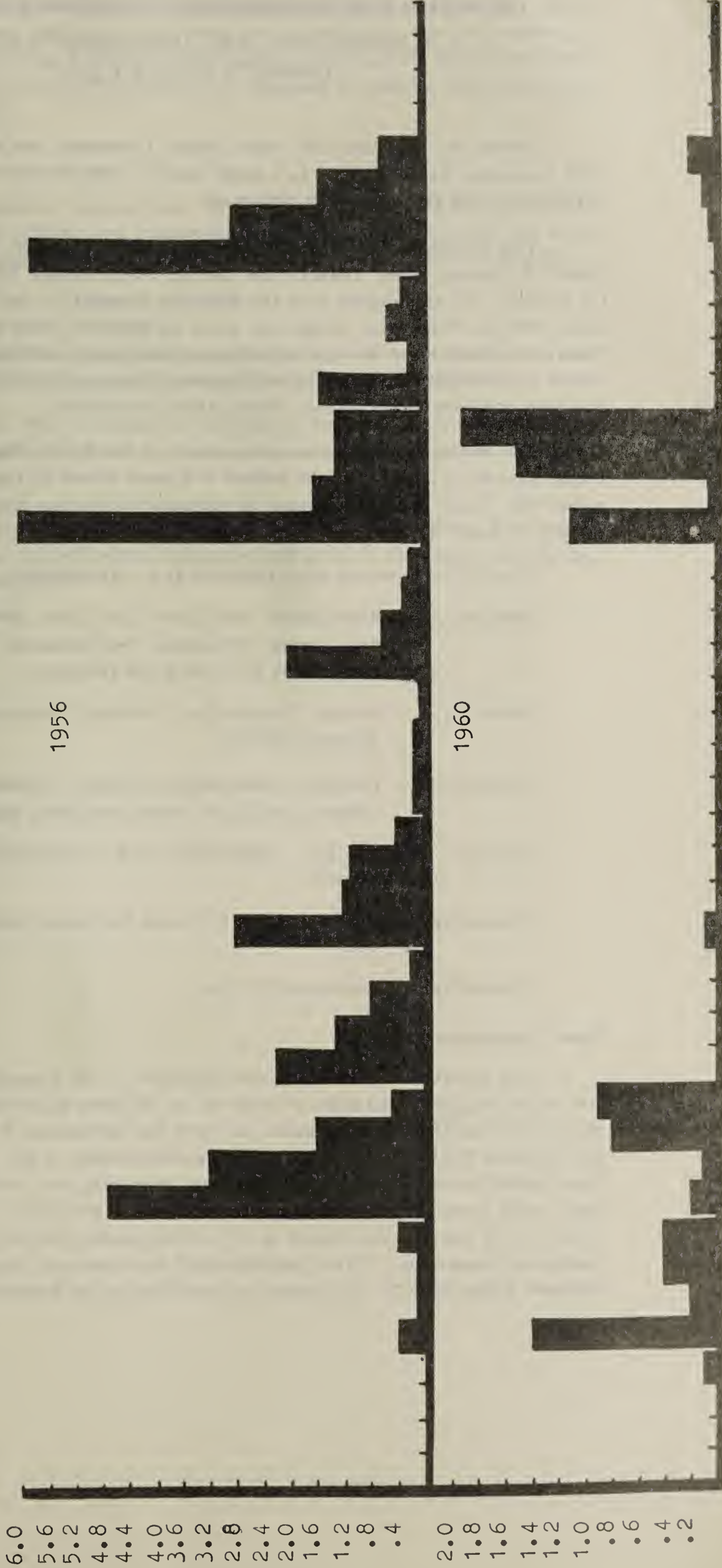
Rodent control in the Port and its immediate environs continues as a routine measure. 54,858 baits were laid at warehouses, shops and other places. 697 rats were destroyed.

MISCELLANEOUS SERVICES

Under this head the department dealt with several complaints of mosquito and vermin infestations from private householders, and Government institutions. Other public health matters which required attention were dealt with.

AEDES AEGYPTI ERADICATION CAMPAIGN 1956 AND 1960

St. Andrew	Christ Church	St. George	St. James	St. John	St. Joseph	St. Lucy	St. Michael	St. Peter	St. Philip	St. Thomas
Quarters	Quarters	Quarters	Quarters	Quarters	Quarters	Quarters	Quarters	Quarters	Quarters	Quarters
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4



6.0
5.6
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1.0
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.4
.2

THE PUBLIC HEALTH LABORATORY – HEALTH CENTRE, ENMORE

V. A. A. ARCHER, Esq., B.Sc., (Agric.) (Mc.Gill), M.Sc. (Agric.)
(Toronto) F.R.I.C., F.C.I.C.

During the past year the Public Health Laboratory has moved steadily forward. This Laboratory has now grown to a point where in 1960 forty-five thousand, two hundred and thirty-six (45,236) tests were performed.

The Laboratory Supervisor and a Laboratory Assistant visit the Speightstown Branch Laboratory every Tuesday and the St. Philip Branch Laboratory every Friday. On Mondays, two technicians visit the Maternity Hospital for serological and haematological work. On Thursdays, technicians go to the Maternity Ward of the St. Michael's Infirmary to collect blood for serological tests. Serological and Urinalysis tests were performed on all emigrants to the United Kingdom, Canada and the United States of America and other countries at the request of the Labour Department.

The history, organisation and operation of the Public Health Laboratory in Barbados from 1957 to 1959 formed the subject of a paper written by the Laboratory Supervisor called "The Public Health Laboratory in Barbados" which was circulated at the Scientific Meeting in Jamaica.

The following are the tests performed in all laboratories:—

Haematology – Haemoglobin, Red Blood Cell Count, Haematocrit, White Blood Cell Count, Differential, Sedimentation Rate, Bleeding Time, Coagulation Time and Blood Grouping.

Urinalysis – General Examination, Reaction, Microscopic, Albumin, Sugar, Acetone and Bile.

Bacteriology – Darkfield Examinations, Smears, Cultures, Sensitivity tests on tubercle bacilli and routine sensitivity tests.

Serology – V.D.R.L. (Qualitative and Quantitative), Wasserman, Paul Bunnell.

Parasitology – Faeces (Smears, Filtration, Helminths), Blood (Malaria, Helminths, etc.)

Bacteriological Examination of Water.

Water Examination

One important aspect of the work performed in the Central Laboratory is the routine bacteriological examination of water by the Millipore Filter Method. This method has proved most satisfactory in Barbados, and with the publication of the Eleventh Edition of the American Public Health Association Standard Methods it has been adopted as an official method for water analysis and has found increasing use in the United States and in many other areas. It was used to test water samples from every public standpipe in the Island. 1,121 samples were tested in all and the results were reported in a paper by the Laboratory Supervisor – "The Bacteriological Examination of Water in Barbados, by the Millipore Filter Method". This paper was circulated at the Scientific Meeting in Jamaica.

Samples from every reservoir and Pumping Station are tested monthly. These samples are collected and submitted by the Waterworks Department. Checks on unsatisfactory results are made by the Laboratory Staff. Samples from Seawell Airport are tested fortnightly and sometimes weekly. This service is extended to schools, hotels and other institutions that request it.

Equipment

The original apparatus obtained from UNICEF is still in continuous use and is beginning to show signs of wear and impairment in efficiency. Replacements are made by Government as the necessity arises, by means of special expenditure in the Estimates.

Staff

In June, the Laboratory Supervisor proceeded on long leave. In America, he was guest of the Millipore Filter Corporation of Boston and visited their laboratories.

In August, Mr. C. Best proceeded to England to pursue a three year course in Middlesex Hospital in order to qualify for the Associateship of the Institute of Medical Laboratory Technology.

Mr. H. Didier who holds the Associateship of the Institute of Medical Laboratory Technology was appointed to the Hospital Laboratory and acted in the Central Laboratory, Enmore, on Mr. Best's departure.

TOTAL WORK PERFORMED IN 1960

ENMORE HEALTH CENTRE

<i>Bacteriology:</i>				<i>Positive</i>	<i>Negative</i>	<i>Total</i>
Smears for G.C.	..	..	..	1,014	1,470	2,484
Cultures for G.C.	..	..	..	6	915	921
Direct Smears for T.B.	..	..	..	70	258	328
Cultures for T.B.	..	..	..	60	108	168
Sensitivity for T.B.	..	..	..	—	—	256
Routine Sensitivity	..	..	..	—	—	115
Other Cultures	..	..	..	—	—	1,269
Smears for Diphtheria	..	..	..	—	—	2
Cultures for Diphtheria	..	..	..	—	—	3
Concentrated Smears..	..	..	..	—	—	2
Darkfield Examinations	..	..	..	6	72	78
						5,626
<i>Haematology:</i>				<i>Positive</i>	<i>Negative</i>	<i>Total</i>
Haemoglobins	..	..	..	—	—	1,353
Erythrocytes, Sedimentation Rate	..	..	..	—	—	19
White Blood Counts	..	..	..	—	—	74
Red blood Counts	..	..	..	—	—	62
Differentials	..	..	..	—	—	55
Sickle Cells	..	..	..	2	29	31
Packed Cell Volume	..	..	..	—	—	4
Paul-Bunnell	..	..	..	—	—	1
Blood Grouping	..	..	..	—	—	7
Rh. ..	..	..	..	—	—	7
Blood Sugar	..	..	..	—	—	3
						1,616
<i>Parasitology:</i>				<i>Positive</i>	<i>Negative</i>	<i>Total</i>
Direct Smears	..	..	..	17	114	131
T. V.	..	..	..	319	609	928
						1,059

ENMORE HEALTH CENTRE - (Continued)

Urinalysis:

Sugar	..	..	..	..	466
Albumin	..	..	..	..	2,200
Microscopic	..	..	..	..	79
General	..	..	..	..	35
Acetone	..	..	..	..	2
Bile	..	..	..	..	5
Reaction	..	..	..	..	19
Specific Gravity	..	..	..	..	23
					<hr/>
TOTAL	..	..	..	..	2,829
					<hr/>

Serology:

V.D.R.L. Qualitative	..	..	..	..	22,258
V.D.R.L. Quantitative	..	..	..	..	5,548
Wasserman	..	..	..	..	1,975
					<hr/>
TOTAL	..	..	..	..	29,781
					<hr/>

Water Examination:

Millipore Filter Method	..	..	..	..	502
					<hr/>

TOTAL ENMORE HEALTH CENTRE .. 41,413

SPEIGHTSTOWN HEALTH CENTRE

				<i>Total</i>
<i>Bacteriology:</i>				
Direct Smears for T.B.	..	..	..	1
Direct Smears for G.C.	..	..	..	6
Darkfield Examinations	..	..	..	3
				<hr/>
TOTAL	..	..	..	10
				<hr/>
<i>Haematology:</i>				
Haemoglobins	..	..	..	36
W.B.C.	..	..	..	27
R.B.C.	..	..	..	26
Differential	..	..	..	5
Sickle Cell	..	..	..	2
				<hr/>
TOTAL	..	..	..	90
				<hr/>
<i>Urinalysis:</i>				
Sugar	..	..	..	1,229
Albumin	..	..	..	6
				<hr/>
				1,235
				<hr/>
TOTAL SPEIGHTSTOWN HEALTH CENTRE				1,335
				<hr/>

ST. PHILIP'S HEALTH CENTRE

				<i>Total</i>
<i>Bacteriology:</i>				
Direct Smears for Diphtheria	..	..	..	3
<i>Haematology:</i>				
Haemoglobins	..	..	..	955
Others	..	..	..	10
				<hr/>
				965
				<hr/>
<i>Parasitology:</i>				
Direct Smears	..	..	..	36
<i>Urinalysis:</i>				
Sugar	..	..	..	741
Albumin	..	..	..	741
Acetone	..	..	..	2
				<hr/>
				1,484
				<hr/>
TOTAL ST. PHILIP'S HEALTH CENTRE	..			2,488
				<hr/>

TESTS IN ALL HEALTH CENTRES FOR 1960

HEALTH CENTRES		Bacteriology	Haematology	Urinalysis	Parasitology	Water	Serology	Total
Enmore	...	5,626	1,616	2,829	1,059	502	29,781	41,413
St. Philip	...	3	965	1,484	36	-	-	2,488
Speightstown	...	10	90	1,235	-	-	-	1,335
Total	...	5,639	2,671	5,088	1,095	502	29,781	45,236

SEROLOGY - 1960

Result	St. Michael's Health Centre		St. Philip's Health Centre		Speights-town Health Centre		Emigration		St. Michael's Infirmary		Maternity Hospital		General Hospital	
		%		%		%		%		%		%		%
Negative Reactive Weakly Reactive	7,673	71.9	2,686	75.1	2,037	79.7	3,638	91.3	208	77.6	671	85.9	401	86.2
	2,047	19.2	476	17.2	468	14.1	223	5.5	41	15.2	68	8.7	52	10.6
	938	8.9	208	7.7	204	6.2	123	3.2	19	7.2	42	5.4	35	3.2
Total	10,658		3,370		2,709		3,984		268		781		488	

Qualitative - 22,258
 Quantitative - 5,548
 Wasserman - 1,975

Total: - 29,781

Part VII. INSTITUTIONS AND HEALTH CENTRES

THE GENERAL HOSPITAL

Dr. A. D. Sinclair – Medical Superintendent

Mr. W. C. Goodman, M.B.E. – Steward & Secretary

Miss E. Walters, S.R.N., S.C.M., Hosp. Admin. Cert., R.C.N. (L'don.)

The average percentage bed occupancy of approximately 86% conceals a tendency to periodic overcrowding in certain wards, particularly the obstetric and general surgical wards, where emergency admission presents difficulties in this respect.

The 40 beds allocated to Pulmonary Tuberculosis on the other hand, though included in the total, had an approximate percentage occupancy rate of 50%.

Table E

This Table consists mainly of patients who attended for general practitioner consultations. It has not been found possible to present separate statistics of genuine 'casualties' e.g. patients who have suffered injury and require immediate treatment.

Table F

The works programme for 1959–60 included provision for additional accommodation for out patient consultations. On completion in June 1960 the number of such clinics was increased from 17 to 27 per week. As shown by the statistics the main object attained is supervision of patients who have been discharged from the wards but still require treatment. This enables patients to be discharged to out patient care much earlier than before and helps to avoid overcrowding in the wards.

Considerable difficulty has been experienced through shortage of medical, nursing and lay staff but the total attendances illustrate a strain that has been removed from the wards either in earlier discharge or prevention of re-admission.

Staff

(a) Medical

The chronic shortage of Junior Medical Staff was somewhat relieved during the year and for one month (August 1961) the full establishment of 7 Medical Officers was available.

(b) Nursing

During the year a highly commendable standard was maintained in the difficult circumstances imposed by the old buildings and critical shortage of trained staff.

On 31st March, 1961, the staff position was as follows:—

Grade	Establishment	Posts filled	Deficiency
Matron	1	1	Nil
Assistant Matron	1	1	Nil
Principal Tutor	1	1	Nil
Tutor	2	1	1
Departmental Sister	5	5	Nil
Ward Sister	30	20	10
Staff Nurse	82	66	16
Student Nurse	135	119	16
Ward Assistant	30	11	19
Total	287	225	62

The lapsing salaries of vacant posts were used to pay temporary staff nurses and ward assistants full time and sessional, of whom the following members were employed on 31st March, 1961:

Staff Nurse – full-time	..	..	19
Staff Nurse – sessional (4 hours per day)	..	..	20
Ward Assistants – full-time	...	..	19
Ward Assistants – sessional	..	..	–

During the year recruitment to and resignation from the establishment is shown by the following figures:–

Grade	Recruited	Resigned
Ward Sister	3	3
Staff Nurse	22	25
Student Nurse	26	33
Ward Assistant	20	8

Nurses' Health

The medical Registrar continued to act as medical adviser to the nursing staff. A daily clinic was held at 8.30 a.m. where nurses reporting sick were seen and routine medical examinations carried out.

During the year the form of Nurses' Health Record devised by King Edward's Fund was introduced. Arrangements were completed for routine fluorographic examination of all nurses at Enmore Health Centre.

Unfortunately during the year no Departmental or Ward Sister was available for the highly desirable post of Home Sister.

The complete absence of secretarial staff was a severe handicap in caring for Nurses' Health Records.

Nurses' Meals

The new system adopted during the previous year appeared to work well and no complaints about the quantity or quality of food were received.

Accommodation

The house, previously occupied by the Secretary, taken over during the previous year to accommodate Matron's Office allowed change rooms to be provided for 18 Ward Sisters who live out. Similar accommodation for 70 Staff Nurses who live out and 20 sessional staff nurses was provided by taking over for this purpose a sub standard medical officer's residence next to the Matron's Office. The Nurses' Clinic was transferred to this site from the overcrowded Nurses' Home. A similar residence at the Ophthalmic Department on Bay Street was allocated to Matron for use as changing and rest rooms for 84 Students Nurses and 30 Ward Assistants who must live out. Three of the latter are male.

This expedient cannot be considered entirely satisfactorily but the present Nurses' Home has a total of only 105 bedrooms, 6 of which have been taken over for offices of the teaching staff and accommodation for Wardens.

Nurses' Training School

During the year over two thousand applications for training were received.

Selection of Student Nurses was achieved by:

(i) *Hospital Entrance Test*

Papers were set and marked by the Tutorial Staff.

(ii) *Interview Panel*

This consisted of the Matron, Principal Tutor and one member of the senior administrative nursing staff.

As a result 36 of the 138 candidates who took the entrance test were accepted for training.

Examination results of Student Nurses during the year are shown by the following figures:

Examination	Entered	Passed
Preliminary Part I ..	23	14
Preliminary Part II ..	32	22
Preliminary Resits I and II	44	11
Final	37	25

A loss of 28 students owing to repeated failure to pass the Preliminary Examination is particularly regrettable.

Advisory Committee on Hospital Administration

During this and the previous year an assessment was made of the requirements of Medical, Nursing and Lay Staff for:

- (i) the present hospital of 453 beds and
- (ii) the new hospital of 542 beds.

Prolonged discussion of the recommendations resulted in the appointment by the Honourable Minister of Social Services of an Advisory Committee on Hospital Administration.

The terms of reference of the Committee were:

- I. To examine the existing staff structure of the General Hospital under the following heads:
 - (a) Medical
 - (b) Nursing
 - (c) Clerical and Administrative.
- II. To consider the demands made on outpatient services.
- III. To make recommendations and to advise the Minister accordingly.

The following members were appointed:

- Dr. H. P. S. Gillette, Federal Medical Adviser – Chairman
- Professor J. G. Gilmour, Professor of Surgery, U.C.W.I.
- Dr. G. W. Moore, Senior Medical Officer, Dominica.

The Committee interviewed representatives of all grades of the Hospital staff and on completion of their investigation submitted a report to the Honourable Minister of Social Services on 30th September, 1960.

Medical Staff Committee (*Barbados General Hospital Act 1947*)

Eleven meetings were held during the year when various aspects of the work of the present hospital and plans for the new hospital were discussed. Meetings continued to be held at 5 p.m. which permitted a good attendance by the busy members whose deliberations usually lasted from two and a half to three hours. Particular attention was devoted to reports by two distinguished visitors to the new hospital site:

Professor D. B. Stewart, U.C.W.I. – January, 1960,

Professor J. Chasser-Moir, Oxford University – November, 1960.

Both these Professors of Obstetrics made important recommendations on the plans for the obstetric department of the new hospital.

Advisory Committee

The following members served on this Committee:

Dr. J. Baeza – Chairman

Mrs. J. A. Martineau

Mrs. E. E. Bourne

Mr. R. N. Cave

Mr. T. O. Allder

Three meetings were held, the main business being the allocation of contracts for milk, bread, alcohol and burials. In addition traffic organisation received attention.

TABLE "A"*Statistical Analysis of In-Patients*

	1959-60	1960-61	%
Total Fixed Bed Complement ...	453	453	
Average daily number of occupied beds and cots	400	391	
No. of in-patients at beginning of annual period	422	408	
No. of in-patients at end of annual period	408	378	
No. of in-patients admitted during annual period	9,647	10,651	Incr: 10.4
No. of in-patients under treatment during annual period	10,069	11,059	
No. of in-patients discharged during annual period (including hospital deaths) ...	9,711	10,721	Incr: 10.4
Average number of patients resident daily	400	391	
Daily average admissions	26	29	
Daily average discharges	26	29	

N.B. This average includes patients admitted in excess of the fixed bed complement of 453 beds.

In-Patient Waiting List

The total number on the waiting list at the end of the period amounted to 1,090 patients as compared with 730 patients at the end of the previous year; an increase of 49 per cent. Cases admitted directly from the waiting list totalled 919 as compared with the previous year's number 931. It would appear that many waiting list cases are still having their admissions delayed because of the increase of emergency cases which are being admitted directly from Casualty or from the Clinics on the same day of attendance.

TABLE "B"

	At 31st March, 1960		At 31st March, 1961		At 31st March	
	Male	Female	Male	Female	1960	1961
					Total	Total
General Medicine	9	9	2	10	18	12
Paediatrics ..	7	—	45	8	7	53
General Surgery	202	199	263	352	401	615
Gynaecology ..	—	172	—	277	172	277
E.N.T. ..	48	84	56	77	132	133
Ophthalmology ..	—	—	—	—	—	—
	266	464	366	724	730	1,090

Admissions and Discharges in their Various Specialities

The figures in this table show the cases admitted and discharged in their various specialities for the period under review. There has been an increase in the cases admitted to all the Specialities except E.N.T.

TABLE "C"

	Available Beds Cots & Bassinets		No. of Cases Admitted		No. of Cases Discharged	
	1959-60	1960-61	1959-60	1960-61	1959-60	1960-61
	General Medicine ..	106	106	2,279	2,711	2,024	2,432
Tuberculosis ..	40	40	36	46	55	66
Paediatrics ..	38	38	1,114	1,175	1,076	1,142
General Surgery ..	† 143	† 143	3,387	3,429	3,360	3,141
Ophthalmology ..	27	27	407	451	404	468
Orthopaedics ..	30	30	305	390	299	407
Police Ward ..	4	4	—	—	—	—
E.N.T. ..	—	—	367	339	335	370
Gynaecology ..	—	—	974	1,238	857	1,252
Obstetrics ..	9	9	737	806	720	810
Nursery ..	10	10	41	66	22	35
Pay Wards "A", "E", "D", Ter. B, Ter. C.	46	46	*	*	*	*
Totals ..	453	453	9,647	10,651	9,152	10,123

N.B. * The number of cases admitted were 1,470; discharged 1,491 as compared with 1,448 admitted; 1,534 discharged for the previous year.

† Including Gynaecology; Ear, Nose, & Throat.

The following Table "D" shows a further breakdown and sex classification of the number of cases admitted for the period under review.

TABLE "D"
Sex Classification

	Male Patients		Female Patients	
	1959-60	1960-61	1959-60	1960-61
General Medicine	1,157	1,483	1,115	1,227
Paediatrics	618	693	496	482
Skin	3	—	4	1
T.B. Ward	21	28	15	18
General Surgery	1,624	1,823	1,763	1,606
Orthopaedic	214	252	91	138
E.N.T.	147	142	220	197
Ophthalmology	179	215	228	234
Gynaecology	—	—	974	1,240
Obstetrics	—	—	737	806
Nursery	20	36	21	30
Totals	3,983	4,672	5,664	5,979

TABLE "E"
Classification of Births

Divisions	1959-60	1960-61	Percentage
Live Births	552	647	incr: 17.2
B.B.A.	28	9	decr: 67.8
Still Births	93	89	decr: 4.9
Twin Births	12	21	incr: 75.0
Triple Births	2	1	decr: 50.0

The figures given in Table "F" below show an increase of 7.9 per cent. and 53.7 per cent. respectively in the total number of new patients and attendances.

TABLE "F"

Divisions	New Cases			Total Attendances		
	1959-60	1960-61	Percentage	1959-60	1960-61	Percentage
Medical & Surgical	23,459	23,816	Incr: 1.5	33,386	55,582	Incr: 66.4
Paediatrics ..	7,800	9,903	Incr: 26.9	12,140	23,395	Incr: 92.7
Diabetes ..	56	70	Incr: 25.0	16,110	15,789	Incr: 2.0
Total ..	31,315	33,789	Incr: 7.9	61,636	94,766	Incr: 53.7

The day to day problem of providing treatment for the overflow of casualty patients still continues despite every effort by the Casualty Officers to see as many patients as it is clinically possible each day.

Out-Patients

A total of 6,286 new cases and 14,387 attendances have been recorded for the period under review; in comparison with the totals shown for the corresponding period

1959-60. These figures in Table "G" show an increase of 1.4 and 26.8 per cent. respectively over the period 1959-60.

TABLE "G"

Divisions	New Cases			Total Attendances		
	1959-60	1960-61	Percentage	1959-60	1960-61	Percentage
Medicine ...	479	445	Decr: 7.6	1,324	2,833	Incr: 114.0
Surgery ...	5,715	5,841	Incr: 2.2	10,008	11,554	Incr: 15.4
Total ...	6,194	6,286	Incr: 1.4	11,332	14,387	Incr: 26.8

Other analyses of the figures for the various specialities as shown in Tables "H" and "I" indicate where the increases and decreases in new cases and attendances have taken place.

Division of Medicine

Attendances were 2,833 as compared with 1,324 in the previous period, an increase of 114.0 per cent. New patients were 445, a decrease of 7.6 on the previous total of 479.

TABLE "H"

Divisions	New Cases			Total Attendances		
	1959-60	1960-61	Percentage	1959-60	1960-61	Percentage
General Medicine	469	445	decr: 7.6	1,277	2,833	incr: 114.0
Dermatology ...	10	—	—	47	—	—
Total ...	479	445	decr: 7.6	1,324	2,833	incr: 114.0

Division of Surgery

Attendances were 11,554 as compared with 10,008 in the previous period, an increase of 15.4 per cent. New patients were 5,841, an increase of 2.2 per cent on the previous total of 5,715.

TABLE "I"

Divisions	New Cases			Total Attendances		
	1959-60	1960-61	Percentage	1959-60	1960-61	Percentage
General Surgery	1,863	2,204	incr: 18.3	2,516	4,744	incr: 88.5
Orthopaedic ...	290	712	incr: 145.5	1,648	1,808	incr: 9.7
E.N.T. ...	1,132	953	decr: 15.8	213	193	decr: 9.3
Ophthalmology ...	1,572	1,163	decr: 26.0	3,965	2,884	decr: 9.3
Dental ...	858	736	decr: 14.2	1,666	1,752	decr: 5.1
Ulcer (started Nov.)	—	73	—	—	173	—
	5,715	5,841	incr: 2.2	10,008	11,554	incr: 15.4

Waiting List of Out-Patient Department

At the first of April, 1961, a total of 281 patients were on the active list of cases waiting to be seen in the clinics and of this total 105 were male and 176 were female patients. The period of waiting was:— Under one month — 262 patients; between one to two months — 19 patients.

Hospital Deaths

The total number of deaths for the year has increased by 6.5 per cent., with a Mortality Rate of 5.6 as compared with 5.4 in the previous period, and an average day's stay of 16 in comparison with 15 for the corresponding period 1959–60.

TABLE "J"

Classification of Hospital Deaths

Division	1959–60	1960–61	Percentage
General Medicine	241	284	incr: 17.8
Paediatrics	75	73	decr: 2.0
Skin	—	—	—
T.B. Ward	7	8	incr: 14.2
General Surgery	148	137	decr: 7.4
Orthopaedic	19	11	decr: 42.1
F.N.T.	—	1	—
Ophthalmology	1	1	—
Gynaecology	2	1	decr: 50.0
Maternal	7	13	incr: 85.7
Nursery	13	21	incr: 61.5
Neo-natal	46	48	incr: 4.3
Casualty	22	21	decr: 6.5
Totals	581	619	incr: 6.5

Perinatal Mortality

A combination of the totals of stillbirths and neonatal deaths shows that the perinatal mortality for the period under review has decreased by 1.4 per cent. Although there has been an increase in the number of births, the stillbirths rate has also decreased by 4.3 per cent.

TABLE "K"

Division	1959–60	1960–61	Percentage
Still-births	93	89	decr: 4.3
Neonatal	46	48	incr: 4.3
Totals	139	137	decr: 1.4

Operations

The total number of hospital operations (major, minor and eye) has increased by 7.1 per cent. The previous year's total was: Major and minor — 4,155 as compared with 4,806; Eye — 207 as compared with 228. The daily average number of operations (in-patients) was 14 as compared with 12 for the previous year, and (out-patients) 4.

TABLE "L"
Operating Theatres

Division	1959-60	1960-61	Percentage
In-Patient (including eyes) ...	4,362	5,034	incr: 13.1
Out-Patient	1,723	1,486	decr: 13.7
Totals	6,085	6,520	incr: 7.1

Physiotherapy

The total number of treatments and attendances is 433 for the period under review as compared with 520 for the previous year. The number of treatments has increased by 36.0 while the attendances show a decrease of 34.8 per cent.

THE MENTAL HOSPITAL

Dr. R. M. Lloyd-Still, O.B.E. – Medical Superintendent

Population

The total number of patients in residence on 31st December, 1960, was 762 (296 males and 466 females) as against 760 on 31st December, 1959, (295 males and 465 females).

Health

The general health of the patients continues to be very satisfactory. Routine X-rays continued to be carried out at Enmore Health Centre, but no new cases of Tuberculosis were discovered.

The number of deaths was higher than the previous year. The majority of the deaths took place among the elderly population. The average age was 63 (62 in 1959). The number of deaths which took place during the last ten years is as follows:—

1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
70	64	60	58	35	44	52	49	53	46	53

Staff

Dr. R. M. Lloyd-Still, O.B.E., Medical Superintendent, went on pre-retirement leave from 7th January, 1960, to 14th July, 1960. Dr. W. Terajewicz, acted as Medical Superintendent while Dr. Lloyd-Still was on leave and Dr. E. St.E. Thompson was employed on a part-time basis as Assistant Medical Superintendent in place of Dr. R. A. J. Webb, who was appointed Medical Officer of Health (North) with effect from 11th April, 1960.

Miss Grace Bayley, R.N., C.M. (T'dad.), R.M.N., S.R.N., Hosp. Admin. Cert. R.C.N. (L'don.), newly appointed Matron, arrived in the island on 21st April, 1960, and assumed duties on 4th May, 1960.

Mr. Ashton Odle, Male Nurse, has been seconded to the post of Superintendent, Mental Hospital, Antigua, for two years with effect from 16th June, 1960, *vice* Mr. Knight.

Mr. Rawle Springer, R.M.N., S.R.N., returned from the United Kingdom on 26th August, and assumed duties. He was appointed Senior Male Charge Nurse and is at present acting as Assistant Head Male Nurse.

Mr. John T. Larrier, R.M.N., and Mrs. Fraulein Larrier, R.M.N., who were on study leave in the United Kingdom, returned to the island on 3rd September, 1960, and resumed duty on 7th September, 1960.

Miss Carmen Herbert succeeded in gaining admission to a Mental Hospital in the United Kingdom; she left the island on 1st May, 1960, and was granted three (3) years study leave for this purpose.

Treatment

Physical methods *i.e.* Electro Convulsive Therapy and Modified Insulin Coma continued to be used with success although on a lesser scale than previously, partly due to the tranquillizing effect of the open door and occupational therapy *etc.* and also to the use of tranquillizing (ataraxic drugs) – even these are used on a very moderate scale.

The Cerebral Stimulator is very useful for treating psychoneuroses and alcoholic states and it also clears confusion and memory loss in the treatment of depressive states.

No Leucotomy operations are performed now.

There were two (2) deaths from neurosyphilis during this year.

Deaths from neurosyphilis for the last twelve (12) years are as follows:—

1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
15	20	13	11	9	7	4	3	3	0	2	3	2

This was the major cause of death ten years ago.

<i>Male V.D.R.L. Tests on blood and C.S.F.</i>	—	287
Positive Bloods	—	45
Positive C.S.F.	—	9
<i>Female V.D.R.L. Tests on blood and C.S.F.</i>	—	263
Positive Bloods	—	64
Positive C.S.F.	—	5

Occupational Therapy

Male patients continued to attend the Female Occupational Therapy Department and worked under supervision of a female nurse, thus releasing a male nurse for other duties. Two male and two female nurses were selected for a course in Handicraft at the Crafts Centre, the Garrison. The patients have benefited greatly from the new methods they have introduced.

Recreation

The year has seen further extensions of patients' recreational facilities. Groups of selected male patients were taken to witness cricket and football matches between the staff and opposing teams.

The male patients also engaged Government Industrial Schools in a cricket match and were victorious. During the year cinema shows, Police Band concerts, Salvation Army concerts and concerts by other visiting artistes have been staged regularly, and have contributed greatly to the contented attitude of the patients. Many patients have ground parole and seldom abuse their privilege.

More patients than usual were sent to the Annual Agricultural Exhibition and there has been a considerable increase in the number of week-end leaves.

Another Sports Day, in which patients and staff participated, was held this year. This was again successful, and the patients enjoyed themselves very much.

Buildings

No new buildings were erected during the year, but two rooms on the female department, were converted into Hair-dressing Parlours. More bars were removed, and the wards were reinstated from time to time. Other than this, the usual programme for maintenance and upkeep of existing buildings were carried out.

Remarks

The open door policy continues to show good results and more and more visitors come to see their relatives and friends — very few visitors now go to the old visitors' room and the majority go down to the wards and grounds to mix with the patients in their own surroundings.

All patients go to the Observation Ward and at least 70% remain there throughout their stay and receive their treatment in pleasant surroundings and get their discharge from the same ward. Our numbers continue to increase particularly on the female side but more accommodation for females is scheduled in the five year plan. The ratio of

female to male patients has now almost reached 5:3, a most unusual figure which bears no comparison to other parts of the world, for instance in Trinidad and Jamaica, the sexes are about equal and in the United Kingdom there may be a very slight excess of females over males. The daily average in residence continues to increase.

The Mental Hospital Farm has now been placed under the financial control of the Department of Science and Agriculture – two challenge cups were won at the Exhibition and numerous prizes were obtained for exhibits.

The Hospital has at last obtained recognition as a Training School. An Intermediate Examination has already been held and results are awaited.

A Census of all patients remaining in Hospital on 1st January, 1960, was successfully carried out practically single handed by Mrs. N. Roach, but she had some assistance towards the end. Dr. Vera Rubin, the Director of the Institute for the Study of Man at Columbia University originated the idea of the Census as a project for Mental Health Year and results are being correlated and analysed at San Juan, Puerto Rico – altogether the Census comprised about 10,000 patients in Mental Hospitals in the Caribbean Area. A congratulatory letter was received from her that the Barbados Census was the first received and the detail was very complete. The results of the Census will be presented by Dr. Vera Rubin at the Third Caribbean Conference on Mental Health in Jamaica in April, 1961.

The Medical Superintendent proceeded to Jamaica as a representative of Barbados at the end of the year to attend a meeting of the Executive Board of the Caribbean Federation for Mental Health to finalize arrangements for the forthcoming Third Caribbean Conference on Mental Health to be held in Jamaica, "The Adolescent in the Changing Caribbean".

Thanks are due also to Mr. Boyce, the Steward, who has carried out his multifarious duties in a conscientious and capable manner; to Mr. Bennett, the Acting Tutor, who had got the Training School functioning in a practical and efficient manner and to all other members of the male and female staff for their co-operation and assistance during the year.

Tables are given in Appendices XX – XXIV.

THE MATERNITY HOSPITAL

Miss L. V. Fearon, S.R.N., S.C.M., Midwife Tutor – Matron

Pupil Midwives

	In Training	Trained Nurse Pupils	Untrained Pupils
From 1st – 31st January	19	7	12
From 1st – 5th February	18	7	11
From 6th February – 31st July	19	6	13
From 1st August – 31st December	20	7	13

January

Fourteen pupils (8 trained and 6 untrained) including a trained nurse from St. Vincent who entered in November, 1959, for a refresher course, sat the Final Midwifery Examination.

Examination results:– All passed.

July

Twelve pupils sat the Preliminary Examination.

Examination results:– 10 passed, 2 failed.

Family Planning Clinic

This clinic is working satisfactorily.

Ante-Natal Clinic

There has been a considerable increase in the number of patients both admitted and delivered.

Infant Welfare and Post Natal Clinic

This clinic continues to work satisfactorily.

Statistics

Admissions	...	...	...	725
Discharges	...	...	...	705
Deliveries ...	...	...	...	622
Multiple pregnancies (twins)	...	...	...	13
Premature births	...	...	...	50
Baby clinic attendances	...	...	...	854
Post Natal attendances	...	...	...	516
Ante-Natal attendances	...	...	...	5,613
Dental benefits issued	...	...	...	94
Abortions ...	...	...	...	1
Transfers to B.G.H. ...	...	...	...	19
Transfers to Mental Hospital	...	...	...	2

Reasons for Transfers to Barbados General Hospital

7 Caesarean section –

2 transverse lie	1 disproportion
1 ante partum haemorrhage	1 persistent occipito posterior
2 prolonged labour	(uterine dysfunction)

1 abortion
 1 pleural effusion
 1 post partum haemorrhage
 1 ante partum haemorrhage
 1 maternal and foetal distress
 1 uterine inertia
 1 severe pre-eclamptic toxæmia at 22 weeks for ? termination
 1 transverse lie and ante partum haemorrhage
 1 respiratory infection
 1 severe post partum haemorrhage
 1 disproportion
 1 infected umbilicus (2 day old infant referred from District by Dr. Reader)

Reasons for Transfers to Mental Hospital

2 puerperal insanity

Maternal deaths	—	None
Neonatal deaths	—	18

Causes of Neonatal Deaths

13 prematurity
 4 asphyxia neonatorum
 1 icterus gravis

Stillbirths	—	12
-------------	---	----

Causes of Stillbirths

4 prematurity
 1 diabetes
 1 prolonged labour
 3 pre-eclamptic toxæmia
 1 anencephalic
 2 breech

Treatments given	—	332
------------------	---	-----

V.D.R.L. Tests

Positive	..	68	}	—	673
Negative	..	605			

Cord Bloods

Positive	..	16	}	—	119
Negative	..	103			

Ophthalmia Neonatorum

Thirty-six eye swabs were taken and one case of positive gonococcus was isolated. This was satisfactorily treated with penicillin drops as well as intramuscular penicillin.

THE LEPER HOSPITAL

There were 10 male and 5 female patients in the Hospital on the 1st January. By the end of the year the number of male patients had been reduced to 8 and the number of female patients to 4.

The following statistics are of interest:

Number of patients in residence on 1st January	...	15
New admissions	... ..	—
Re-admissions on compassionate grounds	...	1
Discharges	... ..	2
Deaths	... ..	2
In residence on 31st December, 1960	...	12
In residence on 31st December, 1950	...	34
In residence on 31st December, 1940	...	57

The causes of the deaths were as follows:—

1. (a) Senility
(b) Leprosy.
2. (a) Congestion and cardiac failure
(b) Leprosy.

Forty-two discharged patients presented themselves at regular intervals for examination and remained in good physical condition.

The staff which numbers 17 was granted leave in accordance with the Leave Regulations, 1952.

Mr. C. E. Edwards continued in the post of Superintendent.

Dr. T. N. Blades continued in the post of Visiting Physician.

The duties of Chaplain were carried out throughout the year by the Reverend Father K. F. Hassell.

The Matron, Miss V. Sealy, continued her studies in nursing in the United Kingdom.

Throughout the year the duties of Matron were carried out by Mrs. E. R. Jules.

Mr. C. H. Riley continued in the post of Steward and Clerk. He performed the duties of Superintendent during the absence of Mr. C. E. Edwards on sick leave from 19th February to 19th March.

The expenditure exclusive of Personal Emoluments was as follows:—

Provisions and fuel	... ..	\$ 9,990.78
Clothing and Uniform	... ..	1,478.67
Cleaning, water and light	... ..	1,539.99
Furniture and bedding	... ..	384.03
Medicine	... ..	2,034.14
Incidentals	... ..	952.26
Medical Boards	... ..	5.04
Stationery	... ..	36.62
Dental Treatment	... ..	144.00
Eye Treatment	... ..	10.00
Inmate Labour	... ..	1,999.87
Casual Labour	... ..	2,213.91
Recreation and handicrafts	... ..	134.38
Travelling allowance	... ..	148.96
Total	.. ..	<u>\$21,072.95</u>

The average daily cost for general maintenance was \$1.85½ and provisions averaged \$1.50 each per day.

Of the sum of \$9,000.00 provided for the after-care of discharged patients a total of \$8,701.18 was expended.

Inmate labour was used for the following:

Sweeping and cleaning yards, washing in the Laundry, sewing, picking fibre and making beds, weeding lawns and gutters and attending the helpless. The average number so employed was 6.

During the year it was agreed that the block of buildings in the female section of the Hospital should be rearranged to accommodate both male and female patients who are now scattered over the Hospital. The section occupied by the male patients will be released for other use.

Plans of the requirements and an estimate of the cost of the work were prepared by the Public Works Department for inclusion in the Estimates of Expenditure for the Financial Year 1961-62.

It is hoped that the work will be put in hand as early as possible.

HEALTH CENTRE, ST. MICHAEL

Dr. L. Harney, Medical Officer of Health

Two new services were started: A Dental Service for which Dr. T. Talma is responsible, and an Ophthalmic Service for which Mr. N. St. John, F.R.C.S. is responsible. Another innovation was the inclusion of inoculation against poliomyelitis in the immunisation programme for children attending the Infant Welfare Clinic.

Staff*Medical*

Dr. L. Harney was appointed Medical Officer of Health on 1st July when Dr. E. Cochrane assumed duties as Senior Medical Officer of Health.

Dr. D. O. S. Payne, Tuberculosis Officer, resigned on 12th August. His place was taken by Dr. T. N. Blades.

Nursing

Miss B. Payne, Senior Public Health Nurse, was granted six months' long leave with effect from 12th September; Nurse B. Williams was appointed to act.

Staff Nurse Young returned from Jamaica where she took the Health Visitors' Course; Staff Nurse Reade proceeded to Jamaica for the same course.

Public Health Laboratory

Mr. V. A. A. Archer, Laboratory Supervisor, was granted six months' long leave with effect from 21st June; Mr. C. McL. Best, Senior Laboratory Technician was appointed to act.

In August, Mr. Best proceeded to the United Kingdom for the three-year course of study leading to the Associateship of Medical Technology. Mr. H. Didier was appointed to act Laboratory Supervisor.

X-ray Department

Miss G. Forde, X-ray Assistant, proceeded to the United Kingdom for a course of study in Radiography.

V.D. Clinic

9,940 V.D.R.L. tests were done during the year. Of these 3,984 tests were on emigrants.

Routine Chest X-ray examination is carried out for all persons of thirty-five years and over.

Every effort is made to impress on the patient the necessity for bringing and sending in contacts for investigation.

Total attendances 3,930

		Males	Females	Total
Syphilis	..	506	584	1,090
Gonorrhoea	..	2,168	672	2,840
				3,930

SYPHILIS

Stages of Disease

	Con- genital	Primary	Sec- ondary	Early Latent	Late Latent	C.V.S.	Neuro- Syph.	Not specified	Total
Males	23	18	9	76	285	40	2	53	506
Females	15	2	11	76	380	60	2	38	584
Total	38	20	20	152	665	100	4	91	1,090

	Infectious (i.e. Primary & Secondary)	Non-Infectious (Others)	Total
Males ...	27	479	506
Percentage ...	5.33	94.66	
Females ...	13	571	584
Percentage ...	2.22	97.77	

Child Health Clinic

There were 973 new cases as compared with seven hundred and eighty-six (786) in 1959, and total attendances were 6,981 as against 6,062 in 1959.

Inoculation against poliomyelitis was started in August.

Inoculations given were as follows:—

Triple Antigen (Diphtheria, Tetanus and Pertussis)	...	2,176
Poliomyelitis	... ..	622
Smallpox	... ..	623

Ante-Natal Clinic

There were 488 new cases for the year as compared with 511 in 1959 and total attendances numbered 2,051 as against 2,336 in 1959.

Dental Clinic

This clinic was started in October with two sessions weekly. School children and ante-natal patients are eligible for treatment at this clinic. 626 extractions were done. At the moment the emphasis is on extractions, but it is hoped that eventually conservative dentistry will be undertaken.

Ophthalmic Clinic

This clinic was started in November for school children only with one session weekly. There were 60 attendances for the year.

Inoculations

In addition to those administered at Child Health Clinic the following were given:

Smallpox Vaccinations	...	...	5,000
T.A.B.	...	...	3,074
Yellow Fever	...	...	17
Tetanus Toxoid	...	...	203
Diphtheria Toxoid	...	...	32

There was a large increase in the number of smallpox vaccinations – (3,220 in 1959). This was mainly due to the increased emigration to England and America.

Home Visits

A total of 365 home visits were made. The Public Health nurses were assisted by the Bridgetown City Council nurses.

Voluntary Workers

Voluntary workers of the St. John's Ambulance Association attend the Ante-natal and Child Health Clinics and help with records, weighing patients, *etc.* The assistance of these voluntary workers is very greatly appreciated.

Laboratory

The work of the Public Health Laboratory is described separately.

X-ray Department

Routine

Large films	...	...	1,455
Miniatures	...	...	7,406
Total	...	...	<u>8,861</u>

Of this total, 3,911 were emigrants.

B.C.G. Campaign – follow-up

Large films	...	...	97
Miniatures	...	...	231
Total	...	...	<u>328</u>
Grand Total	...	...	<u><u>9,189</u></u>

T.B. Clinic

The number of new cases was 34.

The total number of attendances was 2,249.

B.C.G. Programme

One nurse is employed full-time on this programme. Skin testing (Mantoux) and B.C.G. inoculations were continued.

Numbers tested:–

School children	...	...	6,639
Others	...	...	1,810
			<u>8,449</u>

Numbers given B.C.G. inoculations:-

School children	...	...	4,236
Others	...	...	601
			<hr/>
			4,837
			<hr/> <hr/>

Health Talks

Eighty-five health talks were given during the year.

Time Study

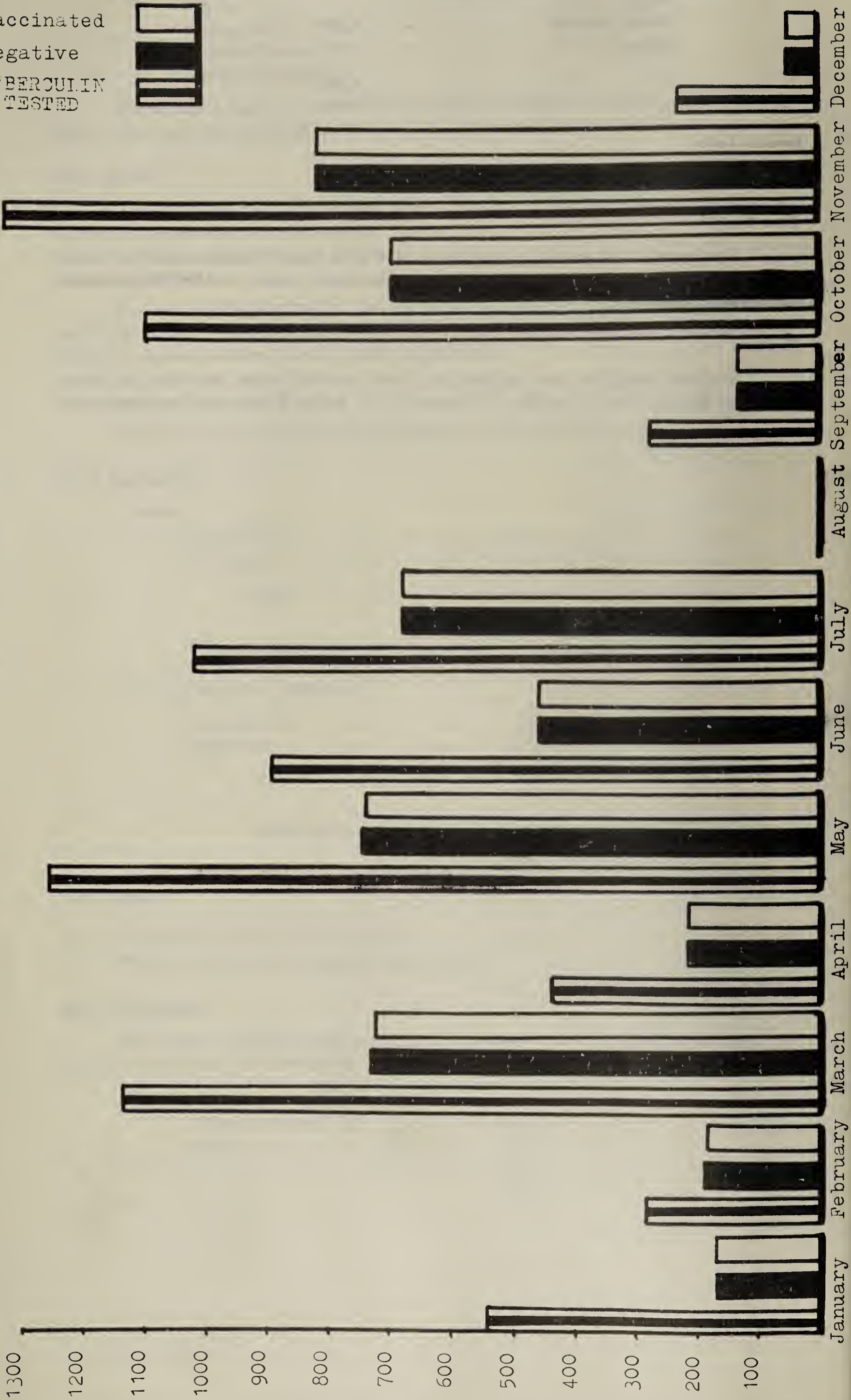
The nurses took part in a time study of Public Health nursing activities under the direction of Miss Huffman, W.H.O. Nursing Consultant, which involved the nurses at three Health Centres.

Visitors

Visitors during the year included Dr. Wells and Mr. Senior both from the Royal Society of Health, London, and Miss G. Russo, I.C.A. Health Education Consultant.

Vaccinated
Negative
TUBERCULIN
TESTED

B.C.G. FOLLOW-UP PROGRAMME 1960



HEALTH CENTRE: SPEIGHTSTOWN

Dr. C. G. Terell, O.B.E., E.D., Medical Officer of Health

The total number of cases shows a slight increase on 1959, being 22,745 as compared with 22,083 in 1959 and 18,414 in 1958.

The Belleplaine Out-Clinic has continued to provide the same services as given in Speightstown.

A new Out-Clinic has been opened in Chimborazo, and this provides Well-baby and Venereal Disease and Mental Hygiene services. This Out-Clinic is held in the meeting room of the Golden Egg Lodge, the members of which have altruistically permitted clinics to be held there every week, free of charge to Government. This is a good example of a responsible body in the community participating in the community health services. They are to be congratulated.

A Mental Hygiene Demonstration Project has been started. This is a government service and it is integrated into the other public health services supplied by the Centre. It is not intended that there should be a separate Mental Hygiene Clinic, but that these services should be provided in the course of other clinics in the form of anticipatory guidance and advice.

In co-operation with Dr. Lloyd-Still, Superintendent of the Mental Hospital, all patients discharged from the Mental Hospital are notified by the Mental Hospital to the Health Centre, and are visited at home by a Public Health Nurse. The object of this visit is:—

1. To provide maintenance and treatment.
2. To integrate the ex-patient with his family.
3. To integrate the family with the local community.
4. To offer such support to the family or ex-patient as is needed.

These visits are welcomed by the families concerned and it is encouraging to note the satisfaction also gained by the nurse from these visits.

Ante-natal Clinic

The total number of attendances was 1,524 in 1960, as compared with 1,606 in 1959 and 1,557 in 1958.

Well-baby Clinic

The total number of attendances was 4,042 in 1960, as compared with 4,150 in 1959 and 3,742 in 1958.

In July, poliomyelitis inoculation was offered to infants attending the Well-baby Clinic, and by the end of the year 343 inoculations had been given.

Diphtheria Tetanus, Pertussis Prophylactic inoculations numbered 1,341 in 1960 as compared with 1,282 in 1959 and 906 in 1958.

Dental Clinic

The total attendance was 1,958 in 1960 as compared with 1,780 in 1959 and 1,492 in 1958.

Diabetic Clinic

Total attendance was 4,041 in 1960. As the crop season gets underway so does the amount of sugar detected in the urine increase. This is apparently due to the ingrained habit of drinking cane juice when available.

Venereal Diseases

Total attendances were 2,588 in 1960 as compared with 2,395 in 1959 and 2,363 in 1958. This increase is probably due to the increasing number of emigrants who request V.D.R.L. tests done prior to emigration.

The percentage of new cases showing positive V.D.R.L. tests is 9.2% in Speightstown, 7.2% in Belleplaine and 11.6% in Chimborazo. This is to be expected. Where a new facility has been opened in an area relatively remote from medical attendance, one would expect to find a higher proportion of untreated or positive bloods.

These figures may be used as a rough guide to the prevalence of syphilis in the general population. However, when using these figures it is important to remember that those (except the large number of emigrants) who have come to take a blood test are more likely to either suspect or in fact have syphilis. Comparison with the data on emigrants only would be interesting.

The proportion of old cases converting to negative varies from 0% in the new area to 22% in Speightstown. The high conversion rate in Speightstown may not be typical and may not be approachable in future years.

Laboratory

Once a week an officer attends Speightstown and performs a urine sugar test on all diabetics.

He is also available for taking and plating smears for bacteriological and microscopical examination.

Country Clinics

Belleplaine: The total attendance for the year was 2,912 as compared with 2,187 in 1959 and 1,759 in 1958. This is an increase of over one-third in 1959.

Chimborazo: The total attendance for the period October to December was 619.

STAFF

Medical Officer of Health

Dr. C. G. Terrell continued in charge of the Health Centre until 30th June, when his agreement with Government ended, and he went on one hundred and eight-nine days vacation leave with effect from 1st July, 1960.

Dr. T. J. Gilmore, Dr. W. S. Snow and Dr. L. B. Bannister acted on a part-time basis during July and August, 1960.

Dr. R. A. J. Webb assumed duty on 1st September, 1960.

Senior Public Health Nurse

Nurse G. Tudor continued to act in this post until 31st August, 1960.

Nurse M. Mayers, who had been seconded to St. Philip's Health Centre, took up duty at Speightstown Health Centre in October.

Stenographer

Mrs. P. M. Edwards continued in her duties during the year.

STATISTICAL SCHEDULE

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Patients ..	1,758	1,811	1,831	1,456	1,908	2,079	2,079	1,968	2,016	2,566	2,866	1,034	23,372
Syphilis Cases ..	7	11	11	5	10	7	14	14	10	12	8	5	114
V.D.R.L. Tests ..	251	191	206	162	231	214	237	177	332	161	191	135	2,588
Positive V.D.R.L. ..	68	44	52	42	51	53	70	76	88	52	35	32	663
Gonorrhoea Cases ..	42	34	31	16	28	37	20	25	20	17	11	12	293
Chancroid Cases ..	—	—	1	—	—	—	—	—	—	—	—	—	1
New Ante-natal cases registered ..	45	43	31	27	31	40	37	36	34	30	27	13	395
New Infants registered ..	50	50	47	37	58	45	55	49	65	53	51	27	587
Vaccinations and Inoculations ..	153	187	182	181	245	376	358	399	335	702	1,261	104	4,483
Insulin Treatments ..	303	329	383	347	388	388	376	366	302	324	269	266	4,041
D.T.P.P. Immunisations ..	108	107	92	99	134	122	135	125	114	136	119	50	1,341
Home Visits ..	101	145	207	174	137	125	110	100	90	80	24	2	1,304

TABLE I
Infant Clinic

To show number of occasions on which mothers attended before delivery

Number of Attendances	1	2	3	4	5	6	7	8	9	10	11
Mothers	62	66	68	57	47	33	22	10	10	4	2

TABLE II

To show age groups to which the expectant mothers belong

Age Group	10-14	15-19	20-24	25-29	30-34	35-39	40-45
Mothers	5	96	89	85	60	33	23

TABLE III

The result of the V. D. R. L. Tests done for mothers attending this Clinic are

Negative	Positive	Tests not done
333	48	—

TABLE IV

To show the results in other cases

Live Births		Twins	Abortions	Miscarriages	Still Births
Male	Female				
179	191	5	3	3	9

TABLE V

Immunisations

Completed	Started but not completed	Not yet started
32	395	104

TABLE VI

To show the age/weight of infants on first attendance

Weight in lbs.	Age (in months) of 1st Attendance							
	1	2	3	4	5	6	7	7+
4	2	—	—	—	—	—	—	—
5	4	—	—	—	—	—	—	—
6	8	1	1	—	—	—	—	—
7	18	3	—	—	—	—	—	—
8	19	7	1	—	1	1	—	—
9	40	34	4	—	1	—	—	2
10	21	48	8	1	2	1	—	—
11	20	37	14	2	—	—	—	1
12	6	20	21	3	3	—	—	2
13	2	18	20	3	2	1	—	1
14	1	6	9	7	5	6	—	3
15	—	4	6	4	2	1	—	2
16	1	—	7	3	5	2	1	2
17	—	1	1	3	5	—	—	4
18	1	—	1	3	2	3	4	21

HEALTH CENTRE, SIX CROSS ROADS

Dr. K. L. Standard, Medical Officer of Health

The Six Cross Roads Health Centre serves in Preventive Medicine and Public Health to the residents of the Southern Area — a population of approximately eighty thousand (80,000) scattered over an area of approximately eighty-eight square miles.

Out-Post Clinics

The out-post clinics are as follows:—

- (a) Gall Hill, St. John — Monday morning.
- (b) St. Augustine, St. George — Wednesday afternoon.
- (c) Oistins, Christ Church — Thursday morning.
- (d) Kendal, St. John — Thursday afternoon.
- (e) Glebe, St. George — Friday afternoon.

Services

Services given through our Health Centre are as follows:—

(a) Health Education:

This is the basis on which all our health work must rest. Our programme involves not only talks, discussions and counselling to those who come to our clinics, but members of our staff, have, from time to time, given talks on certain health topics to various groups in our community. Our work in this sphere has been greatly strengthened by the assistance of the Health Education Committee of the Southern Area — a Voluntary Organization under the Chairmanship of Rev. E. C. MacLaren Mural.

(b) Ante-natal

Expectant mothers are encouraged to register at our clinics early during pregnancy. Ante-natal services are given and mothers are reminded of the delivery services in institutions in our area. During the last part of the year, bookings have been made for the new Oistins District Hospital from and through our clinics.

(c) Post-natal

There is a post-natal check up especially for the infants.

(d) Children's Clinic

- (1) Parent-counselling forms an important part of our programme. Mothers are given advice on feeding and the general care of the infant.
- (2) Immunizations are given against — diphtheria, tetanus, whooping cough, small-pox and poliomyelitis.

Polio vaccine has been offered through our clinics from mid-year.

*(e) School Health Services**(1) Eye Testing*

The Ophthalmic Surgeon from Barbados General Hospital visits this Health Centre once fortnightly to examine the eyes of children who are referred from the schools.

(2) Dental Services

So great has been the demand for this service that during the year another visiting dental surgeon was appointed for our Health Centre. There are now two sessions a week.

(3) *Health Talks*

During the first half of the year, health talks were continued to the senior girls of the Princess Margaret Secondary Modern School.

(f) *Blood Investigation* – Screening for Syphilis.

(g) *Treatment for Venereal Diseases.*

(h) *Diabetic treatment* for cases referred by private physician or General Hospital.

(i) *Home Visiting.*

(j) *School Visiting.*

Staff – Professional and Clerical

(a) *Whole Time*

One Medical Officer of Health.

One Senior Public Health Nurse.

Four Public Health Nurses.

One Staff Nurse.

One Stenotypist.

(b) *Part Time*

Two Visiting Physicians.

Two Dental Surgeons.

Miss M. I. Barrett, Senior Public Health Nurse returned during the month of September, after completing a Post-graduate course in Public Health Nursing at the Graduate School of Public Health, Minnesota, U.S.A.

Miss M. Mayers, Senior Public Health Nurse, who had been deputising for Miss Barrett, returned to her post at the Speightstown Health Centre. I wish to record my appreciation of the work done by Miss Mayers while she was at Six Cross Roads Health Centre.

Miss M. E. Goring, Staff Nurse, returned from Jamaica after successfully completing her course in Public Health Nursing. She was promoted into a newly created post of Junior Public Health Nurse with effect from 1st August.

Mrs. I. Jones, Public Health Nurse, has gone off in September on a ten-month course to the West Indies Public Health Training School, Jamaica.

The part-time visiting dental surgeons are Drs. J. Smith and T. E. Talma.

The part-time visiting physicians are Drs. C. L. Hutson and L. B. Bannister. During the absence of the latter from the island, Dr. C. W. Greenidge has been deputising.

Screening for Syphilis

Four year Summary – (i.e. for the period since the Health Centre has been functioning)

	1957 (¾ year)	1958	1959	1960
Number of persons investigated	2,113	2,535	3,185	New 2,868 Old Rep. 437 } 3,305
Number with positive V. D. R. L.	403	512	715	New 349 Old 334 } 683
Percentage positive ..	19.1	20.1	22.4	New 12.16 Old 76.5 } 20.6

The new V.D.R.L. investigations and the old cases that have a follow-up test at intervals, have been grouped together for the years 1957-59. For 1960, the figures are kept separately for each group.

Taking the old and new investigations together the percentage positive has been increased from what it was in the 1st and 2nd year, though less than that for last year. These percentages are not important for statistical purposes.

Of particular importance is the fact that the new investigations show a positivity rate of 12.16%. How this varies from clinic to clinic is shown in our regular monthly reports.

It is important to note that of the positive cases that are treated 76.5% still have a positive serology (V.D.R.L.). The variation on the monthly reports is from 63.4% to 94.2% which still have a positive V.D.R.L.

Attendance For Syphilis Treatment

	1959	1960
1st half of year	1,307	1,413
2nd half of year	1,801	1,632
Total	3,108	3,045

The venereal disease work is done by Dr. C. L. Hutson at the Six Cross Roads Clinic, while that at the out-post clinics is performed by the Medical Officer of Health.

Ante-natal Services

There were 486 admissions registered in our ante-natal service for the year. The total number of visits by all ante-natal cases for the year was 1,379.

Summary Analysis of Ante-natal Services

TABLE I

	1957	1958	1959	1960
Admissions to ante-natal services ..	235	385	431	486
Visits by ante-natal cases ..	—	—	1,669	1,379
Average number of visits per patient ..	—	—	3.9	2.8

TABLE II

Expectant Mothers Attending Ante-natal Clinics — Shown in age-groups.

(Age Groups in years)	1957	1958	1959	1960
Under 15	4	1	4	4
15 — 19	43	107	97	105
20 — 24	46	94	95	118
25 — 29	58	75	92	80
30 — 34	34	56	63	65
35 — 39	31	42	48	39
40+	9	10	17	15

TABLE III

V.D.R.L. test for syphilis on new Ante-natal cases.

Positive cases found:

<i>Year</i>	<i>Number Positive</i>
1957	52
1958	51
1959	66
1960	50

Each expectant mother is encouraged to bring her partner for V.D.R.L. investigation. The positive mothers are treated and a repeat test is usually done late in pregnancy.

Child Health Services

<i>Year</i>	<i>New Cases Registered</i>
1957	406
1958	482
1959	628
1960	854

<i>Year</i>	<i>Total Attendances at Infants' Clinic</i>
1957	1,977
1958	3,617
1959	4,397
1960	5,815

<i>Year</i>	<i>Immunizations - Triple antigen - completed</i>
1957	102
1958	172
1959	156
1960	417

The number of new cases registered for the year is 854 - an increase of approximately 36% over that of last year. The previous annual increase was 30%.

Vaccination Against Smallpox

Primary	459
Secondary	361

The number of primary vaccinations was chiefly for infants.

Dental Services

Dental clinics for extractions are held on Wednesday morning and afternoon. For the year 1,303 school children and 223 expectant mothers had extractions for dental caries.

Ophthalmic Services

Vision testing by the Ophthalmic Surgeon was started at our centre on 13th October. For the remainder of the year, 33 school children had tests for vision.

Laboratory

The Laboratory work is under the direction and supervision of the Public Health Laboratory Supervisor. Details will be found in his report.

Family Planning

The family planning clinic continued as usual with the visiting staff from their headquarters at Enmore. Attendances recorded are as follows:—

	1957	1958	1959	1960
New cases ..	34	54	51	131
Old cases ...	93	143	166	336

Total number of home visits — 481

Transportation

From the month of May, we were given another vehicle for work of the Six Cross Roads Health Centre.

The total mileage done by both vehicles for the year was eleven thousand seven hundred and seventy-eight (11,778) miles. This included travelling to the following:—

- (a) Follow-up visits to homes of patients by Public Health Nurses.
- (b) School visits by Public Health Nurses.
- (c) Out-post clinics at:
 - (1) Gall Hill, St. John.
 - (2) Kendal, St. John.
 - (3) St. Augustine, St. George.
 - (4) Glebe, St. George.
 - (5) Oistins, Christ Church.
- (d) Trips to Bridgetown for:
 - (1) Laboratory — Enmore Health Centre.
 - (2) Drugs, vouchers, pay sheets etc.

Voluntary Workers

We have continued to be very fortunate in getting unstinting support from voluntary workers.

Mrs. H. W. Peebles has continued to assist with records. Miss M. Holder has been assisting in the children's clinic, weighing and drawing records etc. Miss I. Seale assists similarly, not only at the main centre, but at our out-station clinics.

Assistance from Southern District Clinic

We wish to record our gratitude to the Southern District Council for all the co-operation and assistance given us. They have renovated the Old Isolation Hospital at Glebe, St. George and have allowed us to use it as a clinic. Nurse Burke of Christ Church, an employee of the council assists at out clinics in Oistins.

Health Education

The Voluntary Health Education Association has continued to function under the chairmanship of Rev. E. Maclaren Mural. During the year the committee decided to broaden its scope and extend its activities to include some aspects of community development. The committee has negotiated successfully for a house in the Ellerton Housing Area to be used by the Brenmore Day Nursery.

Visitors to the Health Centre

Visitors to the Health Centre included the following:

- (1) Her Excellency, Lady Diana Hailes.
- (2) Dr. E. T. C. Spooner, London School of Hygiene, Tropical Medicine.

- (3) Prof. Chasser Moir, Professor of Obstetrics, Oxford.
- (4) Mr. and Mrs. George Cadbury – Economic Adviser to United Nations.
- (5) Dr. Gideon Cordice, Medical Services, St. Vincent.
- (6) Miss Frances Williamson, I.C.A., Health Education Adviser, W.I. Federation.
- (7) Miss Gloria Russo, I.C.A., Regional Adviser in Health Education for Latin America.
- (8) Mrs. I. Coates, Health Visitor, British Guiana.
- (9) Mrs. H. Glasgow, Health Visitor, St. Vincent.

Thanks

I wish once more to record my sincere appreciation for the support and co-operation given me by the entire staff of the Six Cross Roads Health Centre.

ST. MICHAEL'S CHEST CLINIC

Dr. E. Cochrane, Senior Medical Officer of Health

The fall in the number of notified cases during the preceding years was reflected in the marked drop in the number of admissions, 14 as against 25 in 1959.

Of the 14 cases admitted only 6 were active cases of T.B. of the lungs. 4 cases were re-admissions, 3 of them were in poor physical condition because of bad economic circumstances and one was due to relapse.

This was a case of a woman who had left against medical advice and had not attended for out-patient treatment.

Four cases were of children with early primary infection and their admission was a precautionary measure to ensure that the infection would not progress to the active stage. All four made excellent progress.

Twenty-two cases were discharged much improved and quiescent.

There was one death of a patient who had been in the Chest Clinic since 1954.

LOCAL GOVERNMENT INSTITUTIONS

Routine annual inspections were made at each of the Infirmaries.

The medical care of the poor in the parishes was efficiently carried out by the District Medical Officers.

NURSING SERVICES

The General Nursing Council functioned throughout the year.

The Barbados Nurses' Association operates an employment bureau and administers a Government Grant of \$4,580 under the supervision of the Director of Medical Services.

Part VIII. GENERAL AND COMMUNICABLE DISEASES

Figures in this part of the Report and the statistical tables in the Appendices refer to the calendar year 1960.

General Diseases

	1959		1960	
	Deaths	% of total Deaths	Deaths	% of total Deaths
Diseases of Circulatory System ..	499	23.94	456	21.44
Diseases of Early Infancy ..	266	12.76	267	12.55
Diseases of Respiratory System ..	219	10.51	215	10.11
Diseases of Nervous System and Sense Organs	204	9.79	319	15.00
Senility and Ill-defined conditions ..	210	10.08	137	6.44
Cancer and Other Tumors ..	204	9.79	230	10.81
Diseases of Digestive System ..	141	6.77	155	7.29
Allergic, Endocrine System, Metabolic and nutritional diseases ..	85	4.08	80	3.76

More detailed information is given in the Appendices to the Report and special attention is drawn to the eight major causes of death as classified under the Intermediate International List of Causes of Death. These Statistics are shown for 1956-60.

Communicable Diseases

Enteric Fever. Eleven cases were reported as compared with four in 1959. Of these none died.

	No. of Cases	
	1959	1960
St. Michael ..	—	8
Christ Church ..	—	—
St. Philip ..	—	—
St. John ..	—	—
St. George ..	—	1
St. Joseph ..	—	—
St. Andrew ..	—	1
St. Thomas ..	—	1
St. James ..	1	—
St. Peter ..	3	—
St. Lucy ..	—	—
Total ...	4	11

Tuberculosis

Year	Whole Island		St. Michael		
	Cases Notified	Deaths	Cases Notified	% of whole	Deaths
1959	68	16	44	64.7	13
1960	43	16	29	67.4	9

Diphtheria. There were no cases nor deaths reported.

Venereal Disease. Deaths from Syphilis now account for only 1.13% of total deaths. There were 24 deaths from Syphilis during the year. Four occurred within the first year of life and one occurred from the first to the fourth year. Gonococcal Infections caused one death within the first year of life.

Leprosy. There were no cases nor deaths reported.

Tetanus. Seventeen deaths were reported. 8 were infants under one year.

Cerebro-spinal Meningitis. There were no cases nor deaths reported.

Poliomyelitis. There were no cases reported.

Leptospirosis. No cases were reported; there was one death.

Malaria. The colony remained free from Malaria.

Whooping Cough. One death was reported of one infant under one year.

Details of the incidence of communicable diseases by parishes are available in Appendix II. The parish of St. Michael may be considered as Urban and the remainder Rural.

Part IX. QUARANTINE

No quarantinable diseases were reported during the year.

The ports were maintained free of *Aedes Aegypti* Mosquitoes throughout the year. Within the port area of the City of Bridgetown routine Rat Control measures were carried out throughout the year.

Part X. GENERAL SANITATION

The Northern and Southern District Councils have recognised the Sanitation measures formerly carried out by the several parishes.

Much hard work still however remains to be done, before this service can be considered to be satisfactory. There is the need for an acceptance of the fact that sanitation is today one of the fields for trained specialists, and that this service must be directed and supervised by trained wholetime officers, who are given the necessary authority to make decisions which are in keeping with the Bye-laws and Regulations under which they act. The Council on the other hand has its special function, as the employing agency, to consider the reports of its Inspectors, and to satisfy itself that the policy, decided by its members is carried out, and that the funds allocated for Sanitation are wisely spent.

Part XI. FOOD

SUPPLIES AND NUTRITION

The excellent figures recorded in the section for vital statistics are in NO small measure due to an improved standard of nutrition in the population generally. Increased catches of fish have been made available to the people, and the large sums of money sent back to Barbados by workers who have found employment abroad, have made it possible for the diet of the average family to be improved.

Part XII. SCHOOL NUTRITION PROGRAMME

The supply of skimmed milk and biscuits enriched with Vitamin B has been continued. This supplement is intended to supply those food factors which are known to be deficient in the diets of the children.

Part XIII. SCHOOL HEALTH SERVICES

7,447 children received dental care, and 465 were treated for visual defects, 161 of whom were provided with spectacles; 74 children had their spectacles repaired.

Part XIV. HEALTH EDUCATION

This is one of the primary functions of the Health Centres. Throughout the year, and at all of the Clinics, no opportunity is lost in bringing to the people who attend the clinics all of the available information on a wide range of health topics.

That this teaching has met with a considerable measure of success, is quite evident. The regular attendances at Ante-natal Clinics, the response to the advice given on immunization programmes for the infants, and the large numbers who attend for blood tests for syphilis, these are indications that patterns of living are being changed.

Classes were arranged for the preparation of public health inspectors for the examinations for the certificate of the Royal Society of Health.

Four persons were selected for training at the West Indies School of Public Health in Jamaica; two were nurses and two were public health inspectors.

Part XV. W.H.O. PERSONNEL

The department wishes to place on record its great appreciation of the help and advice which it has had from the W.H.O. Personnel Mr. James Allen stationed in Barbados and also for those members of the organisation who have visited the island during the year.

Part XVI. CONFERENCES

The following attended Conferences during the year.

The Director	—	Standing Advisory Committee for Medical Research in the British Caribbean held in Jamaica from 1st – 9th April.
Dr. E. Cochrane	}	— Standing Advisory Committee for Medical Research in the British Caribbean – Scientific Session – held in Jamaica from 2nd – 6th April.
Dr. M. Bools		

Part XVII. VISITS

During the year visits were paid to the Department by the following:

Professor E. T. C. Spooner, London School of Hygiene and Tropical Medicine.
 Dr. R. Lewthwaite, C.M.G., O.B.E., Adviser on Medical Research to the Secretary for Technical Co-operation.
 Professor A. C. Frazer, Prof. of Pharmacology, University of Birmingham.
 Professor D. B. Stewart, Prof. of Obstetrics and Gynaecology U.W.I.
 Prof. J. Gilmour, Prof. of Surgery, U.W.I.
 Dr. J. C. R. Buchanan, C.M.G., Principal Medical Officer, Colonial Office.
 Dr. G. H. K. Gentle, W.H.O. V.D. Consultant.
 Dr. Solon Camargo, W.H.O. Consultant
 Professor Chassoir-Moir, Prof. of Obstetrics (Oxford)
 Dr. W. Adams, Assistant Director of Medical Services, British Guiana.

Dr. G. W. Moore, Senior Medical Officer, Dominica.

Miss V. Huffman, W.H.O. Nursing Consultant.

Part XVIII. FINANCE

The following financial statement of expenditure and revenue is for the year 1960-61:

Director of Medical Services	\$	129,432.00
General Hospital ..	..	1,621,773.00
Mental Hospital ..	..	502,356.00
Lazaretto ..	..	45,285.00
District Hospital Services ..	..	12,102.00
Health Centres ..	..	253,653.00
Maternity Hospital ..	..	45,526.00
<i>Grants:</i>		
Barbados Nurses' Association		4,572.00
<i>Revenue:</i>		
Total Medical Departments ..		118,790.00

Part XIX. CONCLUSION

During the year the work of the department has been considerably increased, as better services were made available to a wider section of the population. The number of attendances at all hospitals and clinics, continues to rise steadily, and there has NOT been a corresponding steady increase in the size of the staff. This means that, in several sections of the Department an increasingly heavy assignment of work has fallen on many willing shoulders.

I wish to thank those who have again put in an excellent year's work for having made it possible for the department to place on record the figures which are contained in this report.

M. A. BYER
Director of Medical Services.

APPENDIX I

PORT HEALTH OFFICER'S REPORT

Dr. F. N. Grannum, M.B.E., M.B., Ch.B. (Edin.) D.T.M. & H. (Eng.), M.P.H. Harvard

Dr. D. O. S. Payne, Assistant Health Officer (Port) resigned on 18th May and Dr. E. St. E. Thompson was appointed to act as Assistant Health Officer (Port) with effect from 19th May. He resigned on 30th September and Mr. W. A. Abrahams, Government Chief Public Health Inspector was appointed to act.

SHIPPING

During the year 1960, 1,358 ships were admitted to the Port of Bridgetown representing a total nett tonnage of 2,384,269 tons.

This tonnage was apportioned as follows:—

Total Merchant Shipping	— 1,259	— 2,353,983 tons
Others	— 99	— 30,286 tons
Total shipping for year	— 1,358	— 2,384,269 tons

The following table shows the figures for the past five years:

Year	Number of Ships	Nett Tonnage
1956	1,023	2,166,602
1957	1,090	2,063,689
1958	1,129	2,024,130
1959	1,277	2,199,124
1960	1,358	2,384,269

APPENDIX I — *Continued*

Return of Shipping for the year 1960

MERCHANT SHIPPING

Class of Vessels	Nationality	Number of Vessels	Nett Tonnage
Steam and Motor	British	541	837,326
	Dutch	82	319,208
	Liberian	39	70,486
	Norwegian	76	240,590
	American	19	197,977
	Italian	32	155,009
	German	57	119,893
	French	30	200,861
	Panamanian	11	77,000
	Spanish	9	44,976
	Israeli	2	10,360
	Swedish	11	26,776
	Honduran	9	1,576
	Polish	1	7,924
	Swiss	3	7,988
	Danish	3	6,536
	Peruvian	1	2,123
Dominican Republic	4	1,669	
Canadian	6	707	
		936	2,238,985
Tankers	British	14	12,163
	Norwegian	28	29,283
	Liberian	3	12,963
	Panamanian	7	12,180
	German	7	10,023
	Creek	1	7,060
	Dutch	1	6,512
	American	4	3,716
	Italian	1	6,128
	Cuban	3	2,270
		69	102,298
Sailing Vessels	British	250	12,436
	French	4	264
		254	12,700
TOTAL MERCHANT SHIPPING		1,259	2,353,983

APPENDIX I - Concluded

Classes of Vessels	Nationality	Number of Vessels	Nett Tonnage
Yachts	British	41	823
	American	23	618
	Panamanian	12	830
	Liberian	1	687
	Costa Rican	1	42
	Belgian	2	36
	French	3	15
	Guatemalan	1	8
	Norwegian	1	5
		85	3,064
Naval Ships	British	9	23,531
Training Ship	Peruvian	1	1,625
		10	25,156
Survey Ships .	British	1	2,000
Tug	American	1	61
Motor Launches ..	British	2	5
TOTAL OTHER SHIPPING		99	30,286
TOTAL MERCHANT SHIPPING		1,259	2,353,983
TOTAL OTHER SHIPPING		99	30,286
TOTAL SHIPPING FOR YEAR 1960		1,358	2,384,269

AIRCRAFT 1960

Nationality	Aircraft
British	2,606
American	807
Canadian	250
French	188
Dutch	83
Venezuelan	55
Bermudian	1
Brazilian	1
Colombian	1
German	1
Mexican	1
Total	3,994

APPENDIX II

CASES OF NOTIFIABLE DISEASES FOR THE YEAR 1960

DISTRIBUTION OF CASES BY PARISHES

Diseases	St. Michael	Christ Church	St. George	St. Philip	St. John	St. James	St. Thomas	St. Peter	St. Lucy	St. Joseph	St. Andrew	Total
Cerebro-spinal Meningitis ..	-	-	-	-	-	-	-	-	-	-	-	-
Cholera ..	-	-	-	-	-	-	-	-	-	-	-	-
Diphtheria ..	-	-	-	-	-	-	-	-	-	-	-	-
Enteric Fever ..	8	-	1	-	-	-	1	-	-	-	1	11
Leprosy ..	-	-	-	-	-	-	-	-	-	-	-	-
Leptospirosis ..	-	-	-	-	-	-	-	-	-	-	-	-
Plague ..	-	-	-	-	-	-	-	-	-	-	-	-
Poliomyelitis ..	-	-	-	-	-	-	-	-	-	-	-	-
Smallpox ..	-	-	-	-	-	-	-	-	-	-	-	-
Tuberculosis ..	29	3	2	-	-	-	4	2	-	2	1	43
Typhus Fever ..	-	-	-	-	-	-	-	-	-	-	-	-
Yellow Fever ..	-	-	-	-	-	-	-	-	-	-	-	-

APPENDIX III

CAUSES OF DEATHS ARRANGED IN PARISHES BY GROUPS FOR THE YEAR 1960 ACCORDING TO THE INTERNATIONAL STATISTICAL CLASSIFICATION
SIXTH REVISION, 1948, INTERMEDIATE LIST OF 150 CAUSES

CAUSE GROUPS	St Michael		Christ Church		St. George		St. Philip		St. John		St. James		St. Thomas		St. Peter		St. Lucy		St. Joseph		St. Andrew		All Parishes		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
																										122
I Infective and Parasitic Diseases	17	19	5	3	4	5	2	6	2	2	-	2	4	2	2	2	-	-	2	2	2	-	1	38	42	80
II Neoplasms	37	65	15	24	3	10	5	10	7	3	10	5	5	5	4	4	1	5	2	7	2	-	2	81	149	230
III Allergic, Endocrine System, Metabolic and Nutritional Diseases	13	13	3	7	2	3	1	4	2	2	1	2	1	2	6	8	-	1	6	8	2	-	34	46	80	
IV Diseases of Blood and Blood-Forming Organs	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	
V Mental, Psychoherotic and Personality Disorders	-	8	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	9	11	
VI Diseases of Nervous System and Sense Organs	57	79	24	17	14	17	9	17	6	8	10	7	8	9	6	9	2	3	5	4	4	9	140	179	319	
VII Diseases of Circulatory System	66	120	20	40	10	21	13	24	11	12	14	7	10	7	5	8	4	10	6	23	9	14	163	293	456	
VIII Diseases of Respiratory System	34	58	13	15	7	6	4	7	4	5	5	5	5	5	7	9	4	4	2	2	1	4	91	124	215	
IX Diseases of Digestive System	21	32	15	13	6	7	9	7	4	8	4	4	3	4	6	-	1	2	3	2	3	1	80	75	155	
X Diseases of Genito-Urinary System	29	14	1	2	3	2	4	3	1	3	4	4	-	4	2	-	1	2	-	-	3	-	51	27	78	
XI Deliveries, Complications of Pregnancy, Childbirth and the Puerperium	-	5	-	2	-	3	-	1	-	-	2	-	1	-	-	1	-	-	-	-	-	-	-	-	17	17
XII Diseases of Skin and Cellular Tissues	1	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	6	8	
XIII Diseases of Bones and Organs of Movement	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	4	
XIV Congenital Malformations	3	2	-	2	1	1	-	-	1	-	1	-	-	-	1	-	-	2	-	-	-	-	6	8	14	
XV Certain Diseases of Early Infancy	68	54	17	8	11	10	8	5	9	7	5	4	4	4	3	3	7	7	4	5	4	3	156	111	267	
XVI Symptoms, Senility and Ill-defined conditions	26	52	3	9	1	1	2	3	1	1	7	3	2	2	6	11	2	2	-	2	1	1	46	91	137	
XVII Accidents, Poisonings and Violence (External Cause)	15	6	4	5	4	-	6	-	3	-	-	3	-	1	2	1	-	1	3	1	-	-	40	14	54	
XVIII Accidents, Poisonings and Violence (Nature of Injury)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL ALL GROUPS	387	533	122	150	66	86	65	89	48	47	52	63	41	45	54	25	40	34	56	27	35	933	1,194	2,127		

CAUSES OF DEATHS ARRANGED IN PARISHES FOR THE YEAR 1960 ACCORDING TO THE INTERNATIONAL STATISTICAL CLASSIFICATION
SIXTH REVISION, 1948, INTERMEDIATE LIST OF 150 CAUSES

Intermediate Number	Cause Groups	Detailed List Numbers	St. Michael		Christ Church		St. George		St. Philip		St. John		St. James		St. Thomas		St. Peter		St. Lucy		St. Joseph		St. Andrew		All Parishes		Total	
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
																												M
A 1	Tuberculosis of respiratory system ..	001-008	3	6	1	2	1	1	1	6	10	16
A 6	Congenital syphilis ..	020	1	2	1	2	2	4
A 9	General paralysis of insane ..	025	1	1	1	1	2
A 10	All other syphilis ..	022, 023 } 026-029 }	5	6	2	1	1	1	1	9	9	18
A 11	Gonococcal infections ..	030-035	1	1	..	1
A 16	(a) Bacillary dysentery ..	045	1	..	1	2	2
	(b) Amoebiasis ..	046	1	1	..	1
	(c) Other unspecified forms of dysentery ..	047, 048	..	..	1	..	..	..	2	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	2	2	4
A 20	Septicæmia and pyæmia ..	053	1	1	2	2	2
A 22	Whooping cough ..	056	1	1	1
A 26	Tetanus ..	061	2	2	..	..	2	3	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	9	8	17
A 34	Infectious hepatitis ..	092	1	2	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	3	2	5
A 42	(b) Ascariasis ..	130.0	1	1	1
A 43	(f) Leptospirosis icterohæ morthagica (Weil's disease) ..	072	1	1	..	1
	(h) Chickenpox ..	087	1	2	2
	(1) All other diseases classified as infective and parasitic ..	110-138 140-148	1	1	1	2	3
A 44	Malignant neoplasm of buccal cavity and pharynx ..	150	9	..	1	1	..	..	1	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	14	3	17
A 45	Malignant neoplasm of oesophagus ..	151	7	16	2	5	..	..	1	1	2	..	..	1	2	1	..	..	..	..	..	..	..	..	16	29	45
A 46	Malignant neoplasm of stomach ..	152, 153	3	1	1	2	..	2	..	..	1	..	..	1	1	..	..	..	..	..	..	..	..	..	6	6	12
A 47	Malignant neoplasm of intestine, except rectum ..	154	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
A 50	Malignant neoplasm of trachea, and of bronchus and lung not specified as secondary ..	162, 163	6	2	1	..	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	8	4	12
A 51	Malignant neoplasm of breast ..	170	..	13	..	5	..	3	..	..	2	..	..	1	..	2	..	..	1	..	..	..	..	..	..	28	28
A 52	Malignant neoplasm of cervix uteri ..	171	..	13	..	3	..	..	1	..	1	..	..	2	..	1	..	..	1	..	..	..	..	..	..	22	22
A 53	Malignant neoplasm of other and unspecified parts of uterus ..	172-174	..	2	..	4	..	..	1	..	..	..	..	1	..	..	..	2	..	1	..	..	..	..	..	13	13
A 54	Malignant neoplasm of prostate ..	177	2	..	2	..	..	..	2	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	8	..	8
A 55	Malignant neoplasm of skin ..	190, 191	1	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	4
A 56	Malignant neoplasm of bone and connective tissue ..	196, 197	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3

CAUSES OF DEATHS ARRANGED IN PARISHES FOR THE YEAR 1960 ACCORDING TO THE INTERNATIONAL STATISTICAL CLASSIFICATION SIXTH REVISION, 1948, INTERMEDIATE LIST OF 150 CAUSES

APPENDIX IV - Continued

Intermediate List Number	CAUSE GROUPS	Detailed List Numbers	St. Michael		Christ Church		St. George		St. Philip		St. John		St. James		St. Thomas		St. Peter		St. Lucy		St. Joseph		St. Andrew		All Parishes			
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total	
			A 57	Malignant neoplasm of all other and unspecified sites	155-160, 164, 165, 175, 176, 178-181, 192-195, 198, 199	5	11	4	2	2	1	1	4	2	1	1	3	1	1	2	..	1	..	16	26	42
A 58	Leukaemia and aleukæmia	204	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	2	2	4
A 59	Lymphosarcoma and other neoplasms of lymphatic and hæmatopoietic system	200-203	..	1	1	..	1	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	2	4	6
A 60	Benign neoplasms and neoplasms of unspecified nature	210-239	1	2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	1	5	6
A 62	Thyrototoxicosis with or without goiter	252	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	-	1
A 63	Diabetes Mellitus	260	6	10	1	4	2	2	1	2	..	1	1	1	1	1	1	1	1	..	2	2	..	..	10	24	34
A 64	(d) Other deficiency states	283-286	7	2	..	2	2	..	2	..	3	1	..	..	1	1	..	4	..	..	6	5	2	..	20	18	38
A 65	(c) Other specified and unspecified anæmias	292, 293	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	-	2
A 66	(a) Asthma	241	..	..	1	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	2	2	4
	(b) All other allergic disorders, endocrine, metabolic and blood diseases	240, 242-245, 253, 254, 270-277, 287-289, 294-299,	..	1	1	1	1	2	3
A 67	Psychoses	300-309	..	8	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	9	9
A 68	Psychoneuroses and disorders of personality	310-324	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	-	2
A 70	Vascular lesions affecting central nervous system	330-334	55	77	21	15	12	16	8	16	4	5	8	9	5	6	6	7	1	2	4	4	4	9	128	166	294	
A 71	Nonmeningococcal Meningitis	340	2	1	..	2	..	..	1	..	..	..	..	..	1	1	..	1	..	..	..	..	..	..	3	5	8
A 72	Multiple sclerosis	345	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	-	1
A 73	Epilepsy	353	..	..	1	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	2	1	3
A 77	(b) Otitis media and mastoiditis	391-393	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	-	1	1
A 78	(b) All other diseases of the nervous system and sense organs	341, 344, 350-352, 354-357, 360-369, 395-398	..	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	6	6	12
A 79	Rheumatic fever	400-402	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	-	2
A 80	Chronic rheumatic heart disease	410-416	..	2	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	1	3	4

CAUSES OF DEATHS ARRANGED IN PARISHES FOR THE YEAR 1960 ACCORDING TO THE INTERNATIONAL STATISTICAL CLASSIFICATION SIXTH REVISION, 1948, INTERMEDIATE LIST OF 150 CAUSES

Intermediate List Number	CAUSE GROUPS	Detailed List Numbers	St. Michael		Christ Church		St. George		St. Philip		St. John		St. James		St. Thomas		St. Peter		St. Lucy		St. Joseph		St. Andrew		All Parishes		
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total
			A 81	Arteriosclerotic and degenerative heart disease ..	420-422	28	33	8	19	6	16	8	15	4	2	5	9	4	3	2	1	1	2	3	17	1	1	70	118	188
A 82	Other diseases of heart ..	430-434	15	21	3	2	..	1	..	3	..	..	2	..	..	..	..	..	..	..	..	..	..	1	30	53
A 83	Hypertension with heart disease ..	440-443	6	10	5	4	2	2	1	2	..	1	1	2	1	1	1	3	1	7	..	2	..	..	32	52
A 84	Hypertension without mention of heart ..	444-447	4	11	1	3	2	2	..	1	1	2	1	1	..	..	..	..	1	1	2	2	1	1	27	39
A 85	Diseases of arteries ..	450-456	12	40	2	12	..	..	4	2	5	4	1	1	2	..	..	..	..	..	1	2	12	76	108	
A 86	Other diseases of circulatory system ..	460-468	..	3	..	..	..	..	..	1	..	..	2	1	2	..	..	..	..	..	..	..	..	..	7	10
A 88	Influenza ..	480-483	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
A 89	Lobar pneumonia ..	490	7	9	..	..	1	1	2	2	1	1	1	..	..	..	..	..	3	..	1	1	..	15	32	
A 90	Bronchopneumonia ..	491	16	31	10	8	5	3	..	2	3	4	..	2	4	2	..	4	1	..	..	..	1	56	96	
A 91	Primary atypical, other and unspecified pneumonia ..	492, 493	1	3	..	2	1	..	..	3	..	1	2	1	..	1	1	1	1	1	..	..	..	..	6	20
A 92	Acute bronchitis ..	500	2	1	1	..	..	..	..	..	..	..	..	1	5	..	4	..	..	2	..	..	..	8	18	
A 93	Bronchitis, chronic and unqualified ..	501, 502	2	4	1	..	..	..	..	2	..	..	1	..	1	..	..	..	..	..	..	..	..	7	14	
A 95	Erysipelas and abscess of lung ..	518, 521	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	2	2	
A 96	Pleurisy ..	519	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	
A 97	(b) All other respiratory diseases ..	511-517, 520-522, 524-527	4	10	1	4	..	1	2	..	..	1	1	1	2	2	..	..	..	1	..	1	..	10	21	31
A 99	Ulcer of stomach ..	540	2	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	5	6
A 100	Ulcer of duodenum ..	541	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	3
A 101	Gastritis and duodenitis ..	543	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	1	
A 102	Appendicitis ..	550-553	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	1	2	3	
A 103	Intestinal obstruction and hernia ..	560, 561, 570	1	2	3	2	..	..	2	..	..	..	1	..	2	..	..	..	..	..	..	..	..	..	9	13
A 104	(a) Gastro-enteritis and colitis between 4 weeks and 2 years ..	57L0	6	10	7	8	1	5	3	4	2	3	4	3	1	2	1	..	1	..	1	2	..	29	37	66	
	(b) Gastro-enteritis and colitis, ages 2 years and over ..	57L1	..	7	2	3	1	1	1	3	..	1	2	..	1	..	2	..	..	1	..	..	..	9	16	25
A 105	Chronic enteritis and ulcerative colitis ..	572	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	2	2	4
A 106	Cirrhosis of liver ..	581	8	3	3	..	1	1	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	14	4	18
	Cholelithiasis and cholecystitis ..	584, 585	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
A 107	Other diseases of digestive system ..	536-539, 542, 544, 545, 573, 580, 582, 583, 586, 587	2	6	2	..	1	..	1	1	..	1	7	8	15

CAUSES OF DEATHS ARRANGED IN PARISHES FOR THE YEAR 1960 ACCORDING TO THE INTERNATIONAL STATISTICAL CLASSIFICATION SIXTH REVISION, 1948, INTERMEDIATE LIST OF 150 CAUSES

BARBADOS.

Inter-mediate List Number	CAUSE GROUPS	Detailed List Numbers	St. Michael		Christ Church		St. George		St. Philip		St. John		St. James		St. Thomas		St. Peter		St. Lucy		St. Joseph		St. Andrew		All Parishes		
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total		
			A 108	Acute nephritis	590	1
A 109	Chronic, other and unspecified nephritis ..	591-594	5	3	..	1	..	2	3	..	1	..	3	..	..	..	..	..	..	..	..	..	..	..	23
A 110	Infections of kidney	600	8	7	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	23
A 111	Calculi of urinary system	602,604	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
A 112	Hyperplasia of prostate	610	4	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	8
A 114 (c)	All other diseases of the genito-urinary system ..	601, 603, 605-609, 611, 612, 614-617, 622-633, 635-637.	11	4	1	..	1	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	21
A 115	Sepsis of pregnancy, childbirth and the puerperium	640-641, 681, 682, 684	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
A 116	Toxaemias of pregnancy and the puerperium ..	642,652, 685,686	..	1	..	..	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	5
A 118	Abortion without mention of sepsis or toxæmia ..	650	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
A 119	Abortion with sepsis	651	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3
A 120 (a)	Other complications of pregnancy, childbirth and the puerperium	645-649, 673-680, 683, 687-689	..	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	5
(b)	Delivery without complications	660	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1
A 121	Infections of skin and subcutaneous tissue ..	690-698	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
A 122	Arthritis and spondylitis	720-725	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	3
A 124	Osreomyelitis and periostitis	730	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
A 126 (a)	Chronic Ulcer of Skin (including tropical ulcer) ..	715	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
(b)	All other diseases of skin	700-714, 716	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	4
A 127	Spina bifida and meningocele	751	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	3
A 128	Congenital malformations of circulatory system ..	754	1	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5
A 129	All other congenital malformations	750, 752, 753, 755-759	1	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	2	..	..	..	..	6
A 130	Birth injuries	760, 761	5	3	4	1	1	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	18
A 131	Postnatal asphyxia and atelectasis	762	8	9	2	1	1	1	..	2	1	..	..	..	..	1	..	..	..	1	..	..	..	..	35

CAUSES OF DEATHS ARRANGED IN PARISHES FOR THE YEAR 1960 ACCORDING TO THE INTERNATIONAL STATISTICAL CLASSIFICATION
SIXTH REVISION, 1948, INTERMEDIATE LIST OF 150 CAUSES

Intermediate List	CAUSE GROUPS	Detailed List Numbers	St. Michael		Christ Church		St. George		St. Philip		St. John		St. James		St. Thomas		St. Peter		St. Lucy		St. Joseph		St. Andrew		All Parishes		
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total
A 132(a)	Diarrhoea of newborn (under 4 weeks)	764	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
	(c) Other infections of newborn ..	763, 766-768	4	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	..	18
A 133	Haemolytic disease of newborn ..	770	2	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	4
A 134	All other defined diseased of early infancy ..	769, 771, 772	15	4	3	1	2	4	1	..	3	..	..	..	1	..	1	1	..	..	..	..	1	..	28	15	43
A 135	Ill-defined diseases peculiar to early infancy, and immaturity unqualified ..	773-776	34	33	8	5	3	5	1	3	7	2	4	11	3	1	1	1	1	6	3	5	2	..	82	65	147
A 136	Senility without mention of psychosis ..	794	19	42	2	8	..	..	1	1	..	1	3	1	5	11	..	..	..	..	1	..	..	27	68	95	
	(c) All other ill-defined causes of morbidity ..	780-787, 788.1-788.7, 788.9, 789-792, 795	7	10	1	1	1	1	2	2	1	..	4	2	1	1	2	1	2	2	1	1	1	1	19	23	42
"E" CODE ALTERNATIVE CLASSIFICATION OF ACCIDENTS, POISONINGS, AND VIOLENCE (EXTERNAL CAUSE)																											
AE 138	Motor vehicle accidents ..	E 810-835	1	1	..	1	..	..	2	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	5	3	8
AE 139	Other transport accidents ..	E 800-802, E 840-846	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
AE 140	Accidental poisoning ..	E 870-895	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
AE 141	Accidental falls ..	E 900-904	..	1	1	1	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	1	..	..	2	4	6
AE 144	Accident caused by hot substance, corrosive liquid, steam and radiation ..	E 917, 918	1	1	..	1	..	..	..	..	..	..	..	2	..	..	..	..	..	..	1	..	..	..	4	2	6
AE 146	Accidental drowning and submersion ..	E 929	6	..	2	2	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	10	2	12
AE 147	Other accidents caused by animals ..	E 928	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
	All other accidental causes ..	E 910-911, E 913-915, E 921-922, E 924-926, E 930-965	4	..	..	..	2	1	..	..	1	..	..	1	..	..	..	..	..	..	1	..	..	..	10	..	10
AE 148	Suicide and self-inflicted Injury ..	E 970-979	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
AE 149	Homicide and injury purposely inflicted by other persons (not in war) ..	E 980-985	1	2	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	4	2	6
TOTAL NUMBER OF DEATHS ..			387	533	122	150	66	86	65	89	48	47	52	63	62	41	54	40	25	40	34	56	27	35	933	1194	2127

N.B. Causes from which no deaths occurred are omitted.

CAUSES OF DEATHS ARRANGED IN AGE GROUPS FOR THE YEAR 1960 ACCORDING TO THE INTERNATIONAL STATISTICAL CLASSIFICATION, SIXTH REVISION, 1948, INTERMEDIATE LIST OF 150 CAUSES

Intermediate List Number	CAUSE GROUPS	Detailed List Numbers	Under 1 Year		1 Year		2 Years		3 Years		4 Years		5-9 Years		10-14 Years		15-19 Years		20-24 Years		25-29 Years		30-34 Years		35-39 Years		40-44 Years		45-49 Years		50-54 Years		55-59 Years		60-64 Years		65-69 Years		70-74 Years		75-79 Years		80-85 Years		85 and Over		Total																		
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F																					
A 100	Ulcer of duodenum	541	2	1	3														
A 101	Gastritis and duodenitis	543	1	1	2														
A 102	Appendicitis	550-553	2	1	3												
A 103	Intestinal obstruction and hernia	560, 561	2	9	4	13												
A 104(a)	Gastro-enteritis and colitis between 4 weeks and 2 years	571.0	2229	6	1	2	29	37	66														
	(b) Gastro-enteritis and colitis, ages 2 years and over	571.1	9	16	25														
	(c) Chronic enteritis and ulcerative colitis	572	1	2	2	4														
A 105	Cirrhosis of liver	581	14	4	18												
A 106	Cholelithiasis and cholecystitis	584, 585	1	1	2												
A 107	Other diseases of digestive system	536-539, 542, 544, 545, 573, 580, 582, 583, 586, 587	2	2	7	8	15										
A 108	Acute nephritis	590	1	1	2										
A 109	Chronic, other and unspecified nephritis	591-594	11	12	23										
A 110	Infections of kidney	600	15	8	23										
A 111	Calculi of urinary system.. .. .	602, 604	1	1	2												
A 112	Hyperplasia of prostate	610	8	1	9										
A 114(c)	All other diseases of the genito-urinary system	601, 603, 605-609, 611, 612, 614-617, 622-633, 635-637.	1	15	6	21
A 115	Sepsis of pregnancy, childbirth and the puerperium	640-641, 681, 682, 684	1	1	2								

APPENDIX VI

MAJOR CAUSES OF DEATH IN ACCORDANCE WITH THE INTERNATIONAL
LIST OF CAUSES OF DEATH

1960

Census Population: Urban - (Bridgetown, St. Michael) .. 92,446
 (Preliminary figure) Rural - 139,339

CLASSIFICATION	Total No. of Deaths	Urban Deaths	Per 100,000	
			Urban Rate	Rural Rate
VII Circulatory System	456	186	201	194
VI Nervous System and Sense Organs ..	319	136	147	131
XV Early Infancy	267	122	132	104
II Neoplasms	230	102	110	92
VIII Respiratory System	215	92	99	88
IX Digestive System	155	53	57	73
XVI Senility and Ill-defined Conditions	137	78	84	42
III Allergic, Endocrine System, Metabolic and Nutritional Diseases ..	80	26	28	39

APPENDIX VII

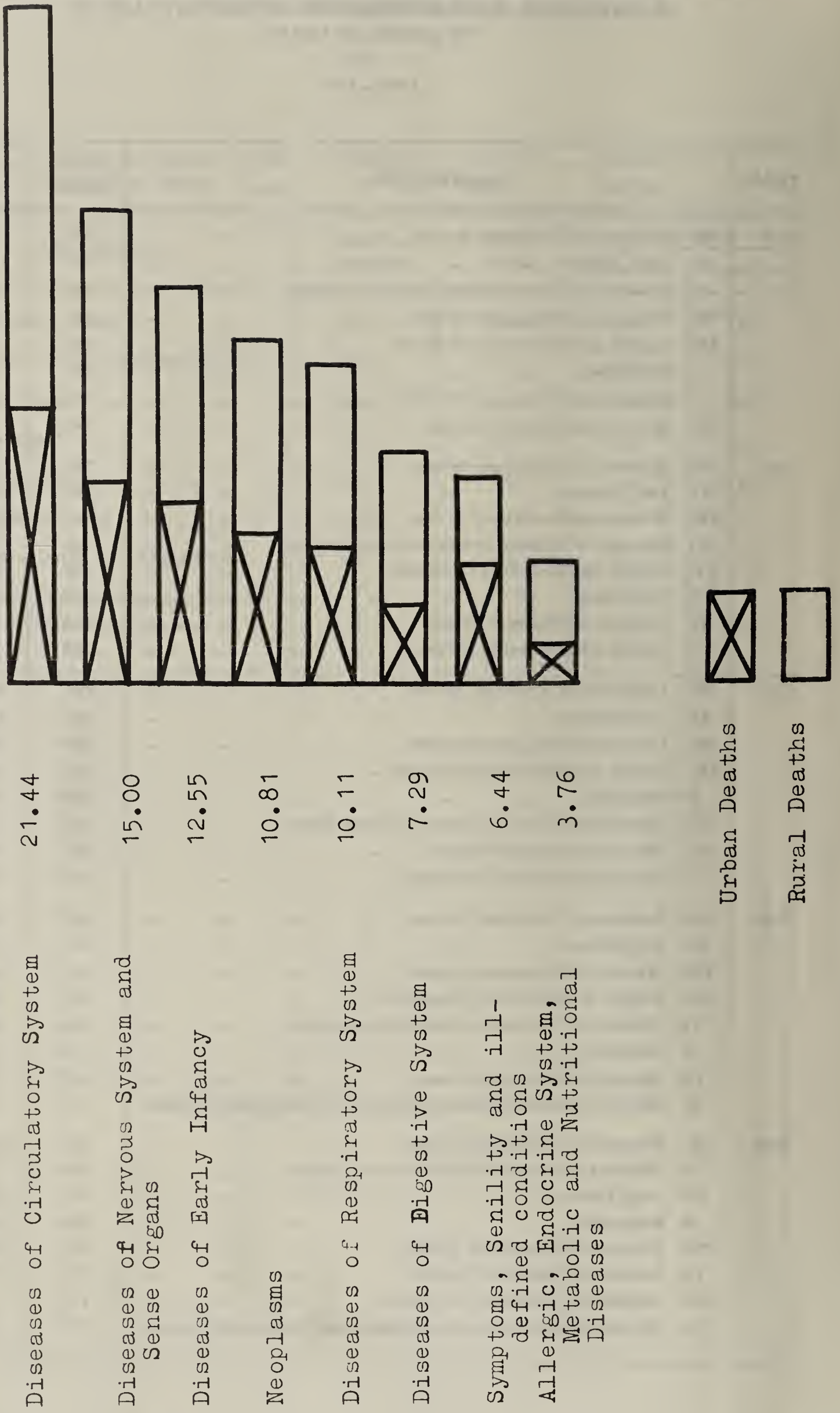
MAJOR CAUSES OF DEATH IN ACCORDANCE WITH THE INTERNATIONAL STATISTICAL
CLASSIFICATION, SIXTH, REVISION, 1948, INTERMEDIATE LIST OF
150 CAUSES OF DEATH

1956 - 1960

YEAR	CLASSIFICATION	No. of Deaths	% of Total Deaths
1956	VII Diseases of Circulatory System	441	19.63
	XV Early Infancy	366	15.06
	VI Diseases of Nervous System and Sense Organs	339	13.95
	VIII Diseases of Respiratory System	255	10.49
	XVI Senility and Ill-defined conditions	235	9.67
	II Neoplasms	209	8.60
	I Infective and Parasitic Diseases	172	7.08
	IX Diseases of Digestive System	141	5.80
	1957	VII Diseases of Circulatory System	563	22.68
XV Early Infancy		366	14.82
VIII Diseases of Respiratory System		300	12.15
VI Diseases of Nervous System and Sense Organs		240	9.72
XVI Senility and Ill-defined Conditions		238	9.64
II Neoplasms		207	8.38
IX Diseases of Digestive System		144	5.83
I Infective and Parasitic Diseases		116	4.70
1958		VII Diseases of Circulatory System	551	23.97
	XV Early Infancy	346	14.26
	VIII Diseases of Respiratory System	250	10.87
	XVI Senility and Ill-defined Conditions	216	9.44
	II Neoplasms	199	9.01
	VI Diseases of Nervous System and Sense Organs	190	8.26
	IX Diseases of Digestive System	159	6.91
	I Infective and Parasitic Diseases	119	5.17
	1959	VII Diseases of Circulatory System	499	23.94
XV Early Infancy		266	12.76
VIII Diseases of Respiratory System		219	10.51
XVI Senility and Ill-defined Conditions		210	10.08
VI Diseases of Nervous System and Sense Organs		204	9.79
II Neoplasms		204	9.79
IX Diseases of Digestive System		141	6.77
III Allergic, Endocrine System, Metabolic and Nutritional Diseases		85	4.08
1960		VII Diseases of Circulatory System	456	21.44
	VI Diseases of Nervous System and Sense Organs	319	15.00
	XV Early Infancy	267	12.55
	II Neoplasms	230	10.81
	VIII Diseases of Respiratory System	215	10.11
	IX Diseases of Digestive System	155	7.29
	XVI Senility and Ill-defined Conditions	137	6.44
	III Allergic, Endocrine System, Metabolic and Nutritional Diseases	80	3.76

APPENDIX VIII

PRINCIPAL CAUSES OF DEATH AS A PERCENTAGE OF TOTAL DEATHS 1960

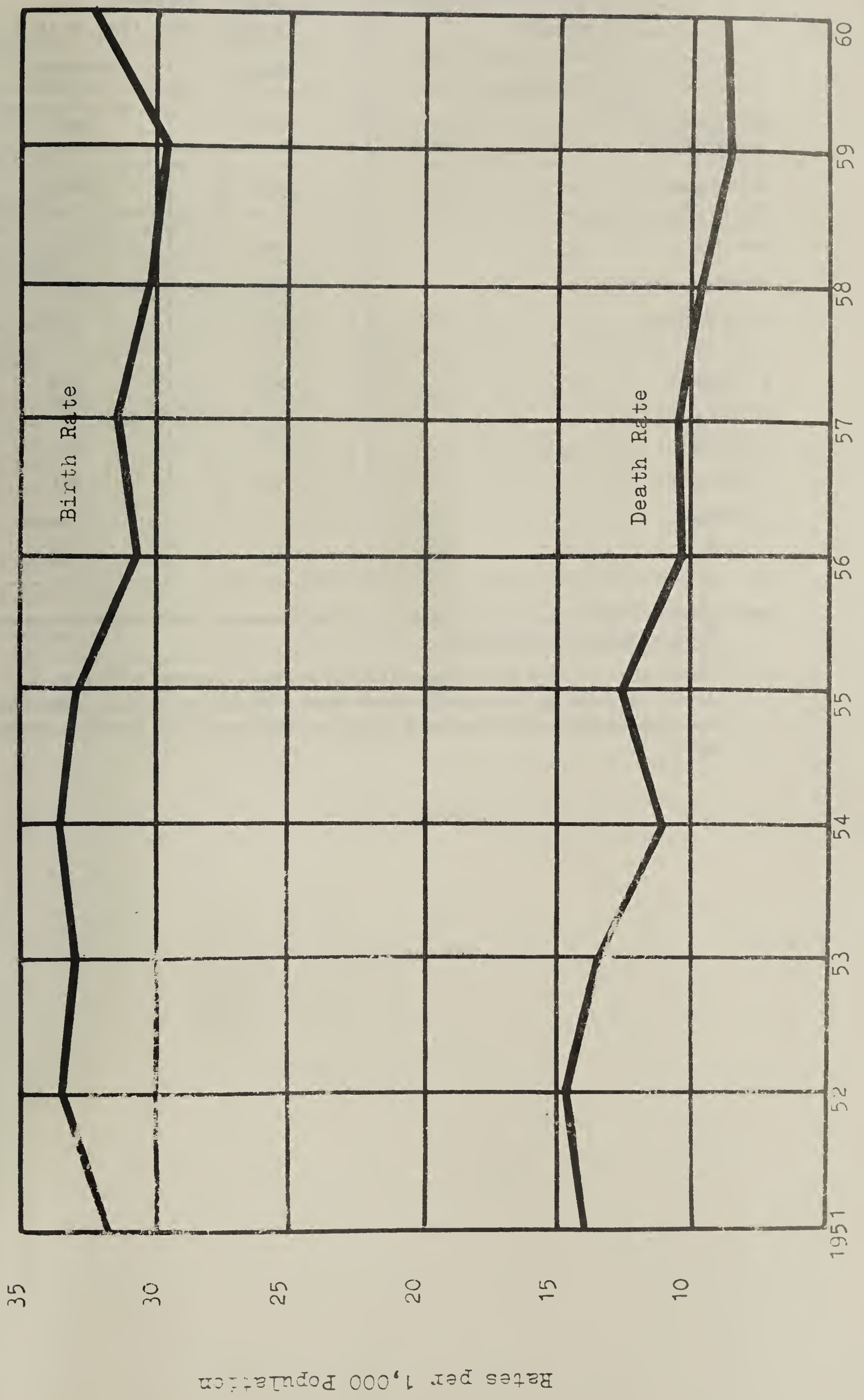


APPENDIX X

INFANT DEATHS ARRANGED IN PARISHES FOR THE YEAR 1960

AGE GROUPS	St. Michael		Christ Church		St. George		St. Philip		St. John		St. James		St. Thomas		St. Peter		St. Lucy		St. Joseph		St. Andrew		All Parishes		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total		
Under 1 day ...	26	14	3	2	3	4	1	1	2	-	2	3	3	2	-	1	1	4	-	-	1	41	32	73	
1 day - 6 days ...	17	26	8	4	3	1	6	-	3	4	3	2	3	1	-	-	3	3	4	2	50	46	96		
7 days - 1 month ..	13	9	-	2	4	5	3	2	3	3	3	-	1	-	3	2	4	1	-	34	27	61			
Total under 1 month ...	56	49	11	8	10	10	10	3	8	7	8	5	7	3	3	3	7	8	5	125	105	230			
1 month - 2 months ...	11	6	2	4	2	1	3	4	6	5	4	1	3	-	2	2	2	1	4	2	39	29	68		
3 months - 5 months ...	19	16	10	4	2	3	1	2	-	3	5	2	6	5	5	3	1	1	3	2	54	41	95		
6 months - 8 months ...	7	10	4	5	4	4	1	2	1	2	1	1	3	1	-	3	1	1	1	1	24	30	54		
9 months - 11 months ...	2	6	1	1	1	1	2	3	2	-	-	1	2	-	-	-	-	-	2	1	13	13	26		
Total under 1 year ...	95	87	28	22	19	19	17	14	17	17	18	10	21	9	10	11	11	11	12	255	218	473			

BIRTH AND DEATH RATES PER 1,000 OF THE POPULATION FOR PERIOD 1951-60



APPENDIX XII

INFANTS DEATHS BY AGE IN MONTHS - % DISTRIBUTION 1960

AGE AT DEATH	DEATHS IN FIRST YEAR OF LIFE	
	Number	% Distribution
Under 1 year	473	100
Under 1 month	239	48.6
Under 1 day	73	15.4
1 - 6 days	96	20.3
7 days to 1 month	61	12.9
1 - 11 months	243	51.4
1 - 2 months	68	14.4
3 - 5 months	95	20.1
6 - 8 months	54	11.4
9 - 11 months	26	5.5

Note: Of the 7,833 infants born alive in 1960, 230 died in the first month of life; the neo-natal mortality rate therefore was 29 per 1,000 live births.

Of the 7,603 that survived the first month of life, 243 died before completing the first year of life; the mortality rate for infants in the second to twelfth months of life therefore was 32 per 1,000 infants alive at the beginning of the second month of life. The infant mortality rate was 60 per 1,000 live births.

APPENDIX XIII

INFANT DEATHS BY AGE IN MONTHS FOR THE YEAR 1960

AGE AT DEATH	DEATHS IN FIRST YEAR OF LIFE			
	URBAN		RURAL	
	No.	% Distribution	No.	% Distribution
Under 1 year	182	100	291	100
Under 1 month	105	58	125	43
Under 1 day	40	22	33	11
1 - 6 days	43	24	53	18
7 days - 1 month	22	12	38	13
1 - 11 months	77	42	166	57
1 - 2 months	17	9	51	18
3 - 5 months	35	19	61	21
6 - 8 months	17	9	37	13
9 - 11 months	8	5	18	6

APPENDIX XIV

CAUSES OF DEATH IN THE FIRST YEAR OF LIFE
 NUMBER OF DEATHS: % DISTRIBUTION FOR THE YEAR, 1960

CAUSE OF DEATH	DEATHS IN FIRST YEAR OF LIFE	
	Number	% Distribution
All Causes	473	100
Pre-natal and natal causes	249	52.0
Premature birth	106	22.4
Congenital malformations	10	2.1
Injury at birth	18	3.8
Congenital debility	41	8.7
Other diseases peculiar to first year of life	62	13.1
Syphilis	4	0.9
Tetanus	8	1.7
Respiratory Diseases	77 (a)	16.3
Gastro-intestinal Diseases	58 (b)	12.3
Epidemic and other Communicable Diseases	10	2.1
Malnutrition	39	8.2
All other specified causes	39	8.2
Ill-defined and unknown causes	1	0.2

(a) pneumonia and other Respiratory Diseases.

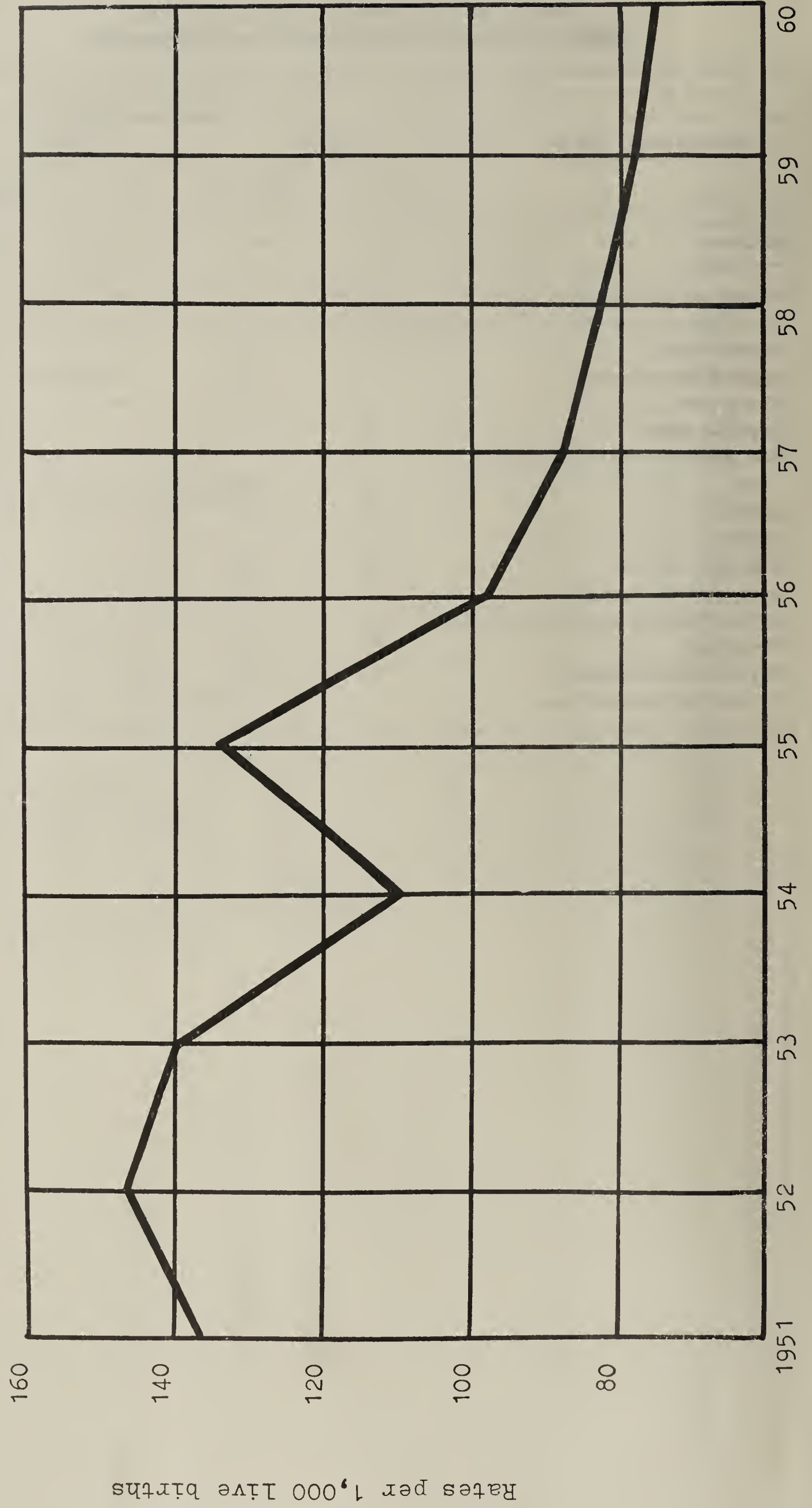
(b) chiefly Gastro-enteritis.

APPENDIX XV

CAUSES OF DEATH IN THE FIRST YEAR OF LIFE
 NUMBER OF DEATHS; % DISTRIBUTION FOR THE YEAR 1960

CAUSES OF DEATH	DEATHS IN FIRST YEAR OF LIFE			
	URBAN		RURAL	
	No.	% Distribution	No.	% Distribution
All Causes	182	100	291	100
Pre-natal and natal causes ...	113	62.1	136	46.8
Pre-mature birth	53	29.1	53	18.2
Congenital Malformations ...	4	2.2	6	2.1
Injury at birth	8	4.4	10	3.4
Congenital debility	14	7.7	27	9.3
Other diseases peculiar to first year of life	31	17.0	31	10.7
Syphilis	3	1.7	1	0.3
Tetanus	—	—	8	2.8
Respiratory Diseases	25	13.7	52	17.9
Gastro-intestinal Diseases ...	14	7.7	44	15.1
Epidemic and other communicable diseases	2	1.1	8	2.7
Malnutrition	16	8.8	23	7.9
All other specified diseases ...	12	6.6	27	9.3
Ill-defined and unknown causes	—	—	1	0.3

INFANT MORTALITY RATES PER 1,000 LIVE BIRTHS 1951-60



APPENDIX XVII

BARBADOS.

Tuberculosis: *Deaths and Death Rate per 100,000 population*

Years	No. of Deaths	Death Rate per 100,000 Population (estimated)
1930-34	111 (mean)	62.6
1935-39	115 "	60.3
1940-44	122 "	60.7
1945-49	116 "	55.9
1950-54	76 "	35.9
1955-59	31 "	13.2

Tuberculosis: *Cases, Deaths, Morbidity and Mortality Rates per 100,000 of the estimated Population for period 1950-59*

Year	Cases	Morbidity Rate	Deaths	Mortality Rate
1951 ..	77	36.1	110	51.5
1952 ..	83	38.2	78	35.9
1953 ..	101	45.7	64	29.0
1954 ..	111	49.5	41	18.2
1955 ..	123	53.7	53	23.1
1956 ..	88	38.3	43	18.7
1957 ..	79	34.2	25	10.8
1958 ..	72	30.7	18	7.7
1959 ..	68	28.2	16	6.6
1960 ..	43	17.7	16	6.6

TUBERCULOSIS MORBIDITY AND MORTALITY RATES PER 100,000 ESTIMATED POPULATION FOR PERIOD 1951-60

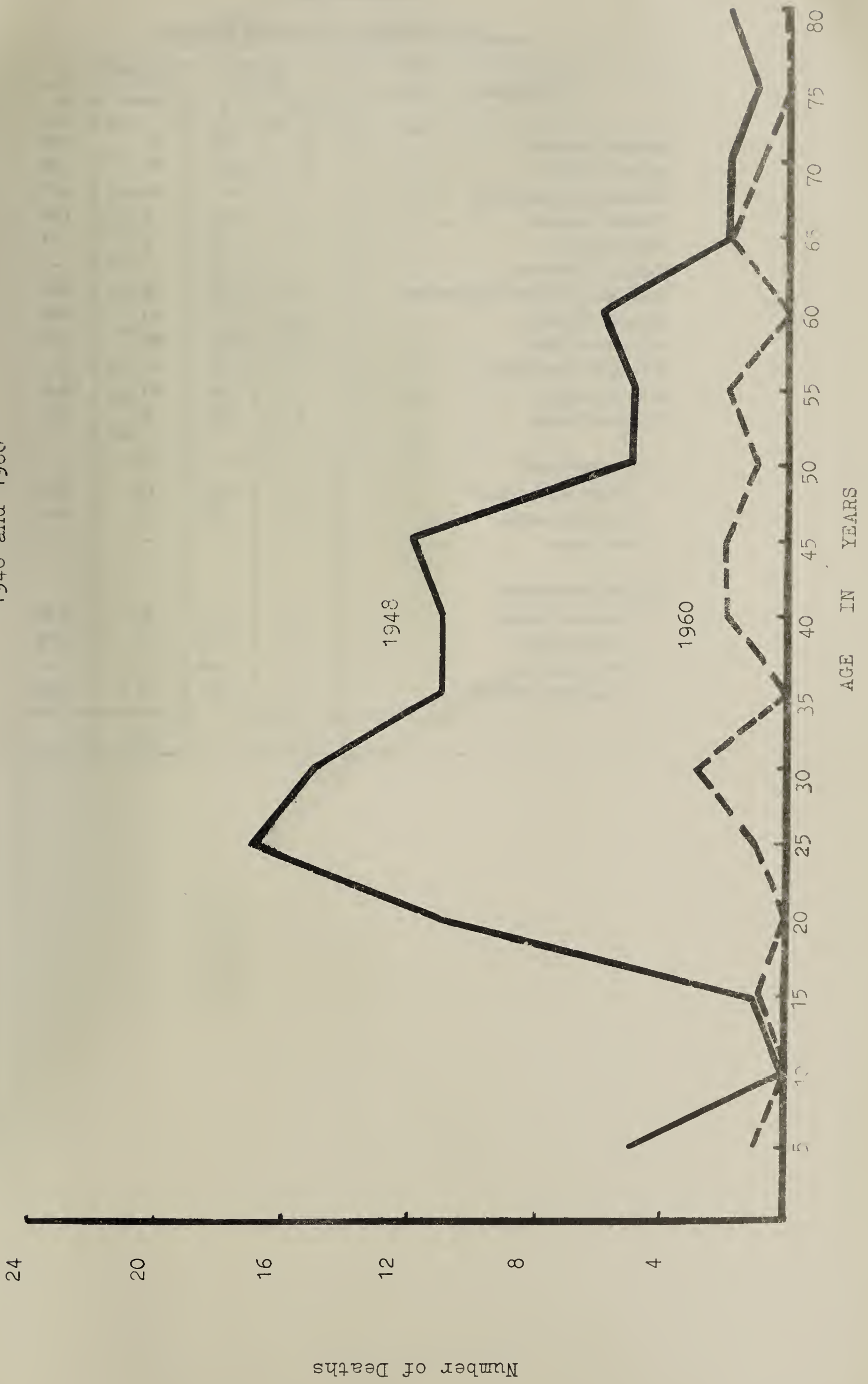
APPENDIX XVIII



Y E A R S

APPENDIX XIX

DEATHS FROM TUBERCULOSIS IN AGE GROUPS
1948 and 1960



APPENDIX XX

DIAGNOSIS OF PATIENTS AT MENTAL HOSPITAL

DIAGNOSIS	MALE		FEMALE	
	Total	%	Total	%
Epileptic Psychosis	10	3.03	10	2.14
Mental Deficiency	32	10.81	25	5.46
Melancholia (involuntional)	—	—	12	2.57
Presenile Dementia	4	1.35	7	1.50
Psycho-neurosis	5	1.65	3	.54
Parkinson's Disease	1	.30	—	—
Senile and Arterio-Sclerotic Dementia ..	12	4.09	38	8.15
Secondary Dementia	11	3.71	11	2.36
Schizophrenic States	166	56.08	256	54.97
Psychopathic Personality	2	0.67	—	—
Manic Depressive	13	4.39	57	12.23
Behaviour Disorder	8	2.70	8	1.71
TOXIC PSYCHOSIS				
Acute Toxic Psychosis	3	1.00	13	2.71
Chronic Alcoholism	8	2.70	5	1.07
Malnutrition	—	—	—	—
ORGANIC PSYCHOSIS				
Dementia Paralytica	11	3.71	10	2.14
Cerebral Syphilis	4	1.35	8	1.71
Tabo-paresis	1	.30	—	—
Arterio-pathic Dementia	5	1.65	3	1.54
	296		466	

APPENDIX XXI

ADMISSIONS UNDER CERTIFICATION

YEAR	No.	Total Admissions	Percentage
1951 ...	188	263	71.5
1952 ...	117	292	40.1
1953 ...	86	348	24.8
1954 ...	72	416	17.3
1955 ...	77	434	17.7
1956 ...	67	415	16.1
1957 ...	64	516	12.4
1958 ...	87	570	15.3
1959 ...	77	558	13.7
1960 ...	72	551	13.1

APPENDIX XXII

PATIENTS ON OBSERVATION

YEAR	Remaining on 1st January, 1960			Admitted			Certified			Released Uncertified			Died			Remaining on 1st January, 1961			TOTAL			
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	
1955 ..	1	-	1	8	5	13	3	2	5	6	3	9	-	-	-	-	-	-	-	9	5	14
1956 ..	-	-	-	8	5	13	1	3	4	6	2	8	-	-	-	1	-	-	1	8	5	13
1957 ..	1	-	1	19	8	27	3	4	7	14	4	28	-	-	-	3	-	-	3	20	8	28
1958 ..	3	-	3	27	10	37	2	2	4	27	8	35	-	-	-	1	-	-	1	30	10	40
1959 ..	1	-	1	30	13	43	2	3	5	27	12	39	-	-	-	-	-	-	-	31	13	44
1960 ..	-	-	-	19	9	28	5	2	7	14	3	17	-	-	-	1	3	4	19	9	28	

APPENDIX XXIII

TABLE SHOWING AVERAGE POPULATION, TOTAL ADMISSIONS, DISCHARGES, DEATHS, ETC.

YEAR	Average Population	Total Admissions	Population at end of year	No. of Discharges	No. of Deaths	Average Percentage	Percentage
1947 ..	736	185	742	108	92	12.05	12.04
1948 ...	747	218	756	122	82	10.96	10.85
1949 ..	749	228	733	169	83	11.08	11.35
1950 ..	720	230	713	180	70	9.72	9.82
1951 ..	711	188	702	139	64	9.00	9.12
1952 ..	704	292	701	180	60	8.52	8.56
1953 ..	704	348	709	282	58	8.24	8.18
1954 ..	709	416	719	371	35	5.00	4.87
1955 ..	717	434	720	389	44	6.22	6.11
1956 ..	716	415	715	368	52	7.26	7.27
1957 ..	723	516	725	455	49	6.77	6.76
1958 ..	734	570	740	502	53	7.22	7.16
1959 ..	737	558	760	492	46	6.22	6.05
1960 ..	759	551	762	496	53	6.98	6.96

APPENDIX XXIV

STATEMENT OF POPULATION

YEAR	Population at beginning of year						ADMISSIONS												Deaths						On Trial at end of year						DISCHARGES																		Population at end of year			Difference
	Temporary			Voluntary			Certified			On Remand			TOTAL			Recovered			Much Improved			Improved			Not Improved			Ret'd from Trial			From Observation			TOTAL			M	F	T													
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T																			
1952 ..	286	416	702	55	93	148	11	16	27	47	37	84	29	17	46	142	163	305	26	34	60	33	34	67	27	39	66	14	32	46	1	-	1	-	-	-	27	16	43	102	121	223	281	420	701	-1						
1953 ..	281	420	701	62	134	196	21	29	50	50	36	86	12	4	16	145	203	348	21	37	58	18	59	77	46	34	80	9	17	26	-	-	-	16	27	43	96	129	225	281	428	709	+8									
1954 ..	281	428	709	109	150	259	44	32	76	45	27	72	4	5	9	202	214	416	16	19	35	51	63	114	40	54	94	32	27	59	2	2	4	14	33	47	6	11	17	149	166	315	298	421	719	+10						
1955 ..	298	421	719	99	162	261	40	43	83	38	39	77	8	5	13	185	249	434	28	16	44	46	82	128	38	47	85	15	26	41	6	3	9	19	42	61	5	14	19	137	182	319	292	428	720	+1						
1956 ..	292	428	720	104	172	276	35	24	59	34	33	67	8	5	13	181	234	415	25	27	52	23	48	71	36	47	83	38	43	81	5	7	12	25	27	52	7	5	12	134	177	311	286	429	715	-5						
1957 ..	286	492	778	133	224	357	35	33	68	44	20	64	19	8	27	231	285	516	22	27	49	32	59	91	54	45	99	25	28	53	4	3	7	30	33	63	17	8	25	162	176	338	285	440	725	-53						
1958 ..	285	440	725	126	229	355	39	52	91	55	32	87	27	10	37	247	323	570	20	33	53	52	71	123	42	63	105	19	37	56	6	10	16	24	37	61	10	39	49	172	228	400	292	448	740	+15						
1959 ..	292	448	740	100	240	340	44	54	98	51	26	77	30	13	43	231	327	558	15	31	46	51	64	115	39	60	99	25	30	55	4	6	10	32	50	82	13	44	57	182	223	405	295	465	760	+20						
1960 ..	295	465	760	119	223	342	61	48	109	43	29	72	19	9	28	258	293	551	16	37	53	59	63	122	36	49	85	23	33	56	6	9	15	47	42	89	14	3	17	225	271	496	296	466	762	+2						

